Service Manual

Sec. 1 | Service Information

Sec. 2 | Block Diagrams

Sec. 3 Schematic Diagrams

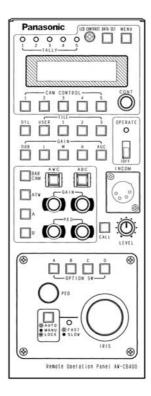
Sec. 4 | Circuit Board Diagrams

Sec. 5 Exploded Views &

Replacement Parts List

Remote Operation Panel

AW-CB400N/L



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

For AW-CB400N Specifications

Supply voltage: DC 12.0 V
Power consumption: 3.8 W

indicates safety information.

Input connectors

DC 12V IN: XLR, 4 pins
GND: GND terminal

Output connectors

CONTROL OUT

TO CONTROL PANEL: D-SUB 29-pin

CONTROL OUT

TO CAMERA 1 to 5: RJ45, camera control RS-422 level

10Base-T straight cable (UTP category 5), max. 1000 meters

Input/output connectors

INCOM (top panel): XLR, 4 pins TALLY/INCOM: D-SUB 15-pin

TALLY: Contact input (do not apply a voltage in excess of 5V)

INCOM: 4-wire system

Switch functions: DATA SET, menu, camera control selection, DTL, scene file selection, gain selection,

BAR/CAM switching, white balance selection, AWC, ABC, call, lens iris

AUTO/MANU/LOCK switching, option switches (1 to 4)

Adjustment functions: LCD contrast, INCOM level, lens iris, menu settings, R-GAIN, B-GAIN, pedestal, R-PED,

B-PEC

Ambient operating temperature: $14^{\circ}F$ to $113^{\circ}F$ (- $10^{\circ}C$ to +45°C) Storage temperature: $-4^{\circ}F$ to $140^{\circ}F$ (- $20^{\circ}C$ to +60°C) Ambient operating humidity: 30% to 90% (no condensation)

Dimensions (W x **H** x **D):** 3-15/16" x 3-3/8" x 10-1/2" (100 x 85 x 266 mm)

Weight: 3.1 lbs (1.4 kg)

Finish: Color resembling Munsell 3.5 paint

Weight and Dimensions indicated above are approximate. Specifications are subject to change without notice.

Accessories

Pan/tilt control panel (AW-RP400) connecting cable	
Tally/INCOM connector (D-SUB 15-pin)	1
Rack-mounting adaptors	2
Join-up fixture	
Mounting screws (M4 x 8 mm)	8
Join-up screws (stepped screws)	2
Joining sticker	,

For AW-CB400L Specifications

Supply voltage: DC 12.0 V Power consumption: 3.8 W

indicates safety information.

Input connectors

DC 12V IN: XLR, 4 pins
GND: GND terminal

Output connectors

CONTROL OUT

TO CONTROL PANEL: D-SUB 29-pin

CONTROL OUT

TO CAMERA 1 to 5: RJ45, camera control RS-422 level

10Base-T straight cable (UTP category 5), max. 1000 meters

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Switch functions: DATA SET, menu, camera control selection, DTL, scene file selection, gain selection,

BAR/CAM switching, white balance selection, AWC, ABC, call, lens iris

AUTO/MANU/LOCK switching, option switches (1 to 4)

Adjustment functions: LCD contrast, INCOM level, lens iris, menu settings, R-GAIN, B-GAIN, pedestal, R-PED,

B-PED

Ambient operating temperature: -10°C to $+45^{\circ}\text{C}$ Storage temperature: -20°C to $+60^{\circ}\text{C}$

Ambient operating humidity: 30% to 90% (no condensation)

Dimensions (W x **H** x **D):** 100 x 85 x 266 mm

Weight: 1.4 kg

Finish: Colour resembling Munsell 3.5 paint

Weight and Dimensions indicated above are approximate. Specifications are subject to change without notice.

Accessories

Pan/tilt control panel (AW-RP400) connecting cable	. 1
Tally/INCOM connector (D-SUB 15-pin)	. 1
Rack-mounting adaptors	. 2
Join-up fixture	. 1
Mounting screws (M4 x 8 mm)	. 8
Join-up screws (stepped screws)	. 2
Joining sticker	. 2

SAFETY PRECAUTIONS

GENERAL GUIDELINES

- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been over-heated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than $5M\Omega$.

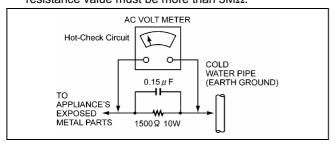


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
 Do not use an isolation transformer for this check.
- 2. Connect a $1.5 \mathrm{K}\Omega$, 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20°F (370±10°C).
- 2. Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
 - Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded tip soldering iron to solder or unsolder ES devices.
- Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
 - (most replacement ES devices are package with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

- 1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV,±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

For AW-CB400N

Safety precautions



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

_For CANADA -

This class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE EQUIPMENT.

WARNING:

TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR/WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

CAUTION:

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR ANY OTHER CONFINED SPACE IN ORDER TO MAINTAIN ADEQUATE VENTILATION. ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING.

Note:

The rating plate (serial number plate) is on the bottom of the unit.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

A warning that an apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A groundingtype plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord form being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For AW-CB400L

Safety precautions

■ DO NOT REMOVE PANEL COVER BY UNSCREWING.

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

WARNING:

TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR/WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

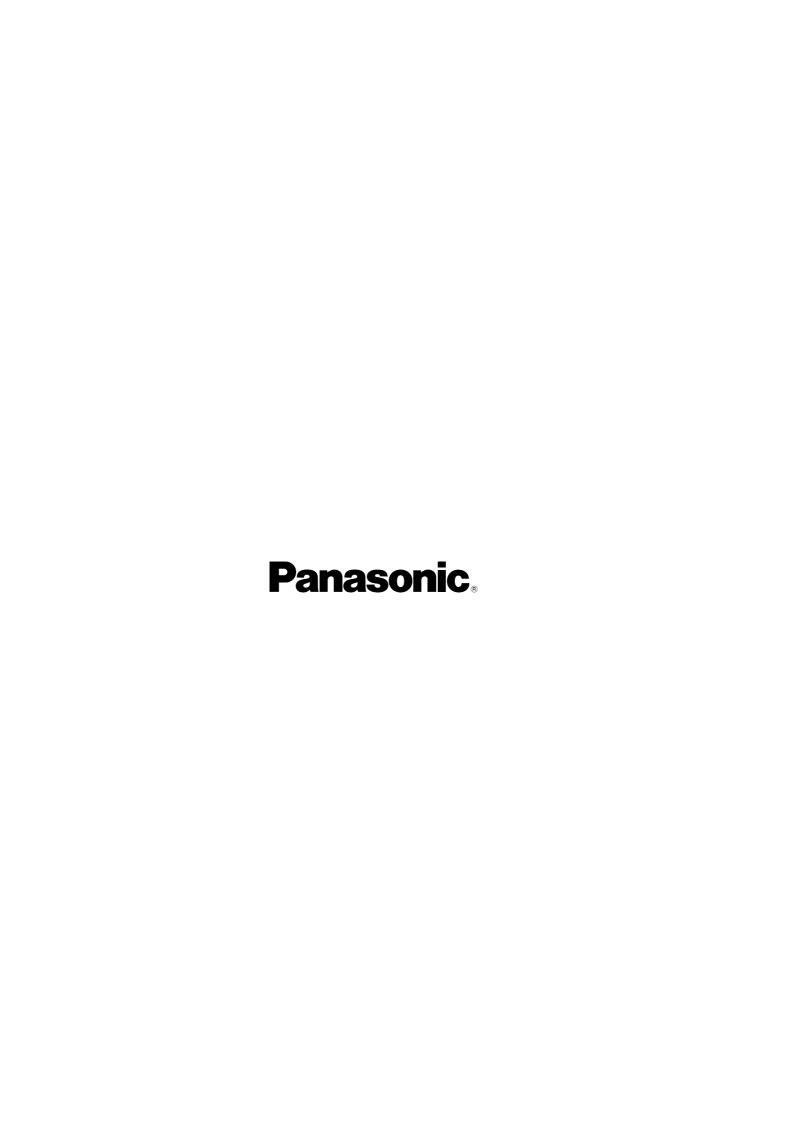
DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR ANY OTHER CONFINED SPACE IN ORDER TO MAINTAIN ADEQUATE VENTILATION. ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING.

Note:

The rating plate (serial number plate) is on the bottom of the unit.

A warning that an apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

indicates safety information.



SERVICE INFORMATION

1	SOFTWARE VERSION LIPGRADE METHOD	INF-1

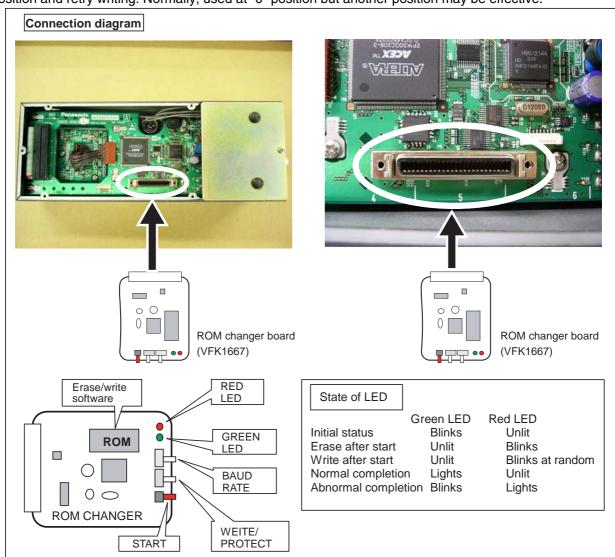
1. SOFTWARE VERSION UPGRADE METHOD

- 1. Install the new version software (ROM) on the ROM changer board (VFK1667).
- 2. Make sure that the power of the unit is turned OFF.
- 3. Connect the board to the P5 (50 pin) connecter of Main PCB as shown in the figure.
- Set the Baud Rate switch on the ROM changer board to the center position.
 Since write protection is not activated, write operation can be started regardless of WRITE/PROTECT selection.
- 5. Turn on power of unit. Then the green LED on the board blinks.
- 6. Press the START button. Then the green LED on the board turns off and the red LED will blink at random. If erase the program and then write new program. (*1)
- 7. Confirmation of completion:
 - (a) Green LED lights : completed successful
 - (b) Red LED, green LED blinks: error

After completed successfully, the unit goes into sleep mode. It will start after power is turned off and then on again. Turn off power and remove the board. If it was error,

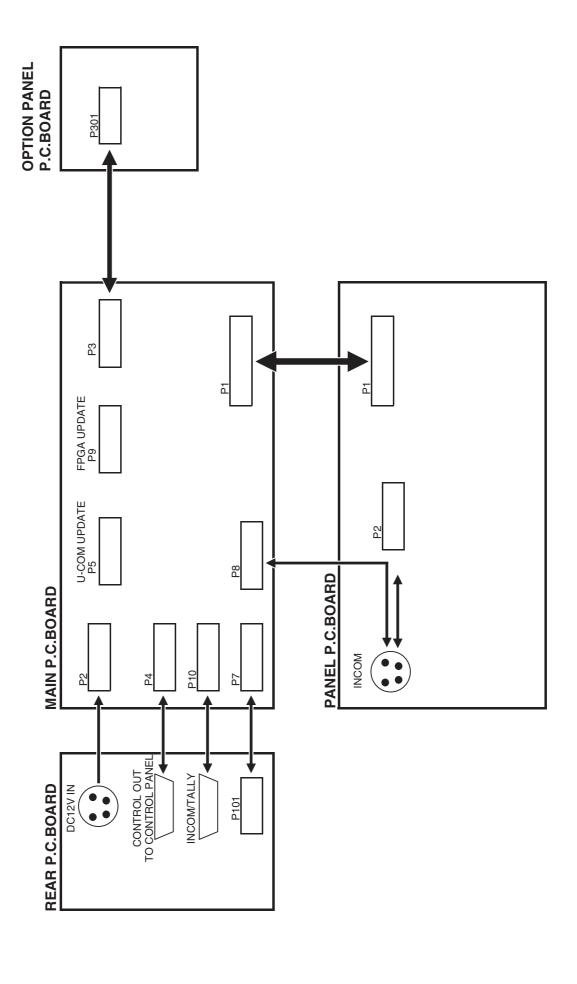
Press the START button to re-write. (*2)

- 8. Check the software version by turning on power of unit while pressing "Menu" and "Call" buttons simultaneously. Then the software version will appear on its LCD display.
- (*1) If the operation ends with an error after writing, it is impossible to re-write once power of unit is turned off. Try writing again by pressing START button.
- (*2) In case of an error (red LED won't blink) after START, turn power off, set the Baud Rate switch to either position and retry writing. Normally, used at "0" position but another position may be effective.



BLOCK DIAGRAMS

BL	OCK DIAGRAM	
	OVERALL BLOCK DIAGRAM	·BLK-
	CPU, FPGA, I/F, SW BLOCK DIAGRAM	·BLK-2
	KEY MATRIX TABLE	·BLK-3
	TALLY BLOCK DIAGRAM	·BLK-4
	INCOM BLOCK DIAGRAM	·BLK-5
	DOWED DLOCK DIACDAM	DIV



See KEY MATRIX TABL OPTION PANEL
SW302 , 303 , 305-307
PANEL
SW1-24 PUSHSW IC9 GATE 01 SO HITEL TEMP H.W. REAR P.C.BOARD 7 <u>F</u> 7 ROTALLY ENCODER
OPTION PANEL
SW301, 304
PANEL
SW26-30 PLDCLK _ A C B IC8 nV-RAM CPU, FPGA, I/F, SW BLOCK DIAGRAM

PANEL P.C. BOARD
OPTION PANEL P.C. BOARD DB [0-7] ICE CLKGEN BZ1 BZ1 BZ1 LCD PANEL RCBTXD , RCBRXD IC13, 14 SELECTOR RS LCD, CS LCD LCD CONTRAST A[0-14, 20,21] Р7 CSRAM TXD+ [1-5] TXD- [1-5] RXD+ [1-5] RXD- [1-5] BACKILL OPERATE LED RS422 OPERATE SW BOOT CONNECTOR | 12M CLK | P6(FACTRY ONLY) RESET MAIN P.C.BORAD RESET IC IC4 J-COM UPDATE

FPGA UPDATE

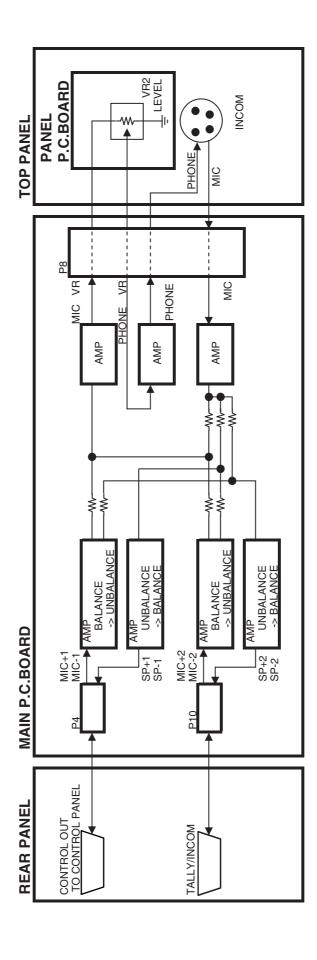
CONTROL OUT TO CONTROL PANEL

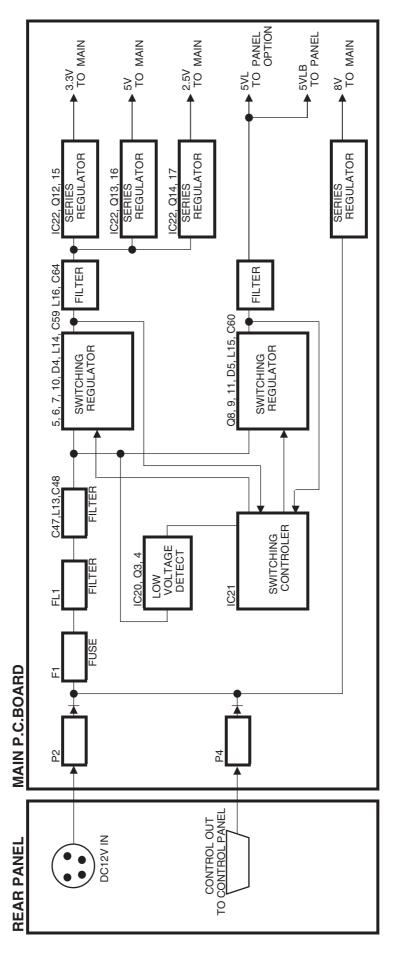
KEY MATRIX TABLE

					FPGA INPUT	PUT			
,		KIO	KI1	KI2	KI3	KI4	KI5	9IX	KI7
	KO0	CAM1	CAM2	CAM3	CAM4	CAM5	DATA SET	MENU	DTL
FPGA	KO1	USER	FILE_1	FILE_2	FILE_3	GAIN_0	GAIN_L	GAIN_M	GAIN_H
OUTPUT	KO2	AGC	ATW	AWC A	A WC B	CALL	BAR/CAM	AWC	ABC
	КОЗ	A/M	OPTION_A	OPTION_B	OPTION_A OPTION_B OPTION_C OPTION_D NOT USE NOT USE	OPTION_D	NOT USE	NOT USE	NOT USE

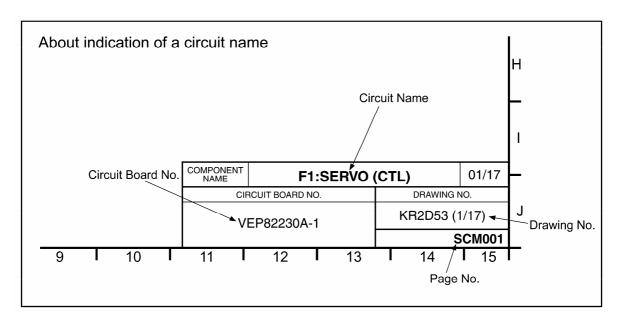
TALLY LED 1-5 PANEL P.C.BOARD TALLY [1-5] IC5 CPU ITA[1-5] BUFFER OPEN COLLECTOR 1033 MAIN P.C.BOARD OTA [1-5] TALLY BLOCK DIAGRAM P10 **TALLY** [1-5] CONTROL OU T TO CONTROL PANEL **REAR P.C.BOARD** CONTROL OU T TO CAMER A TALLY/INCOM **REAR PANEL**

BLK-4





SCHEMATIC DIAGRAMS



NOTE:

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 7

CAUTION

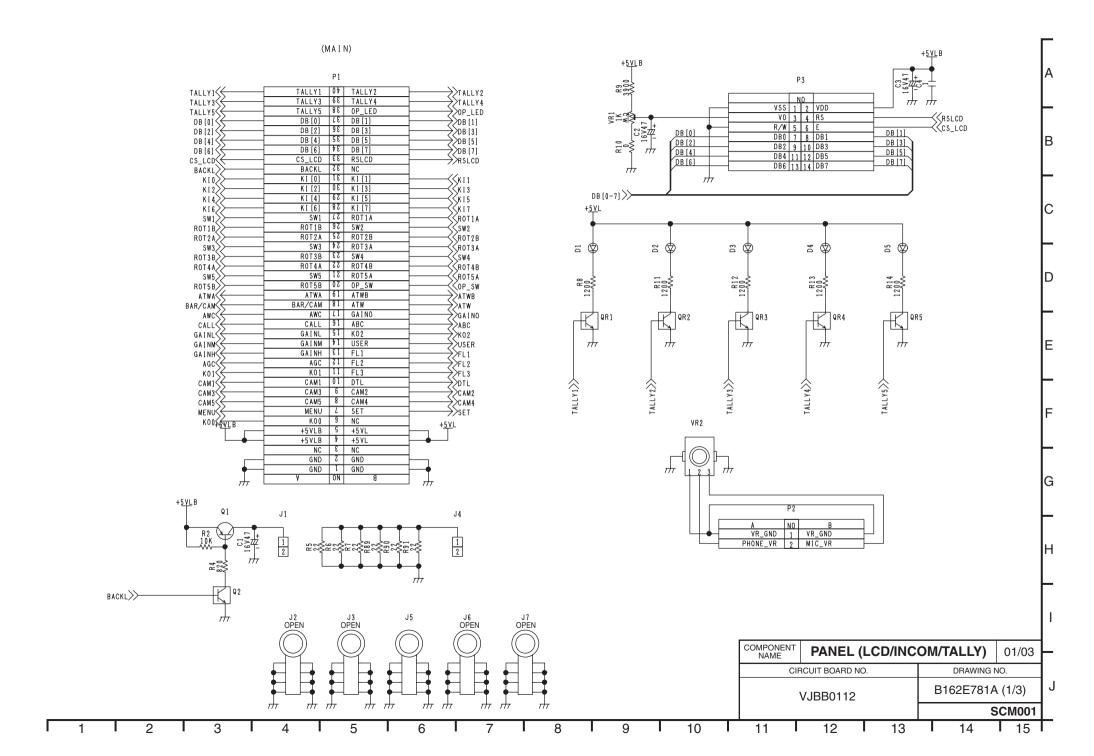
THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

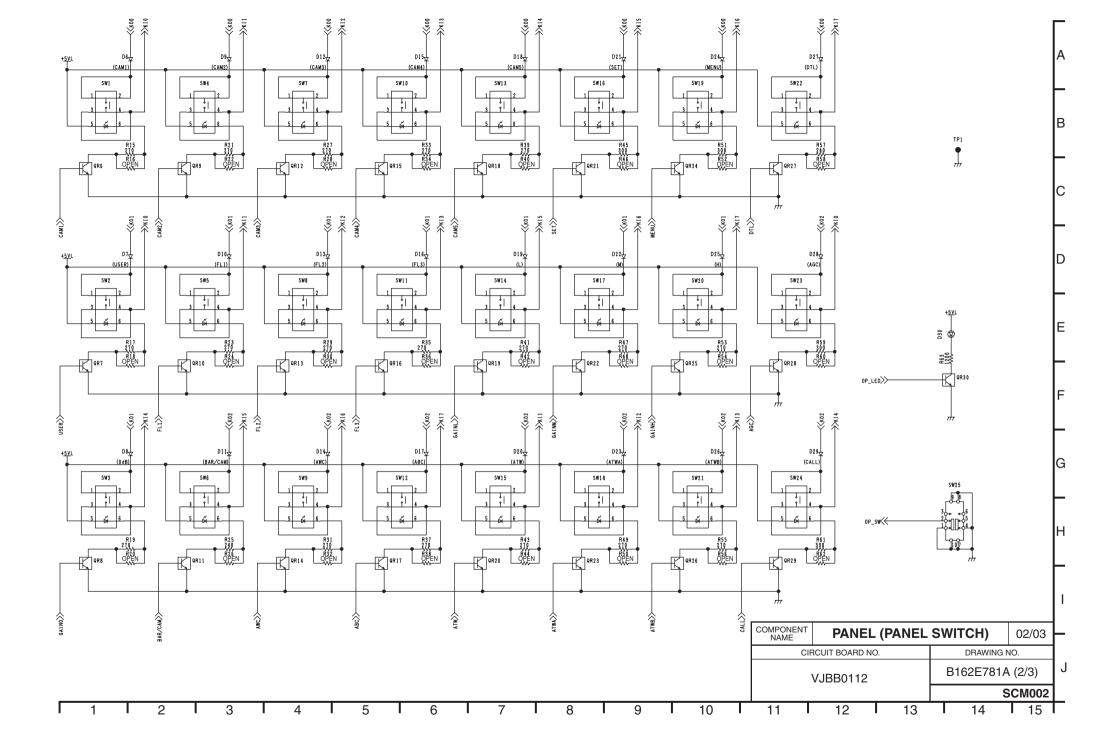
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

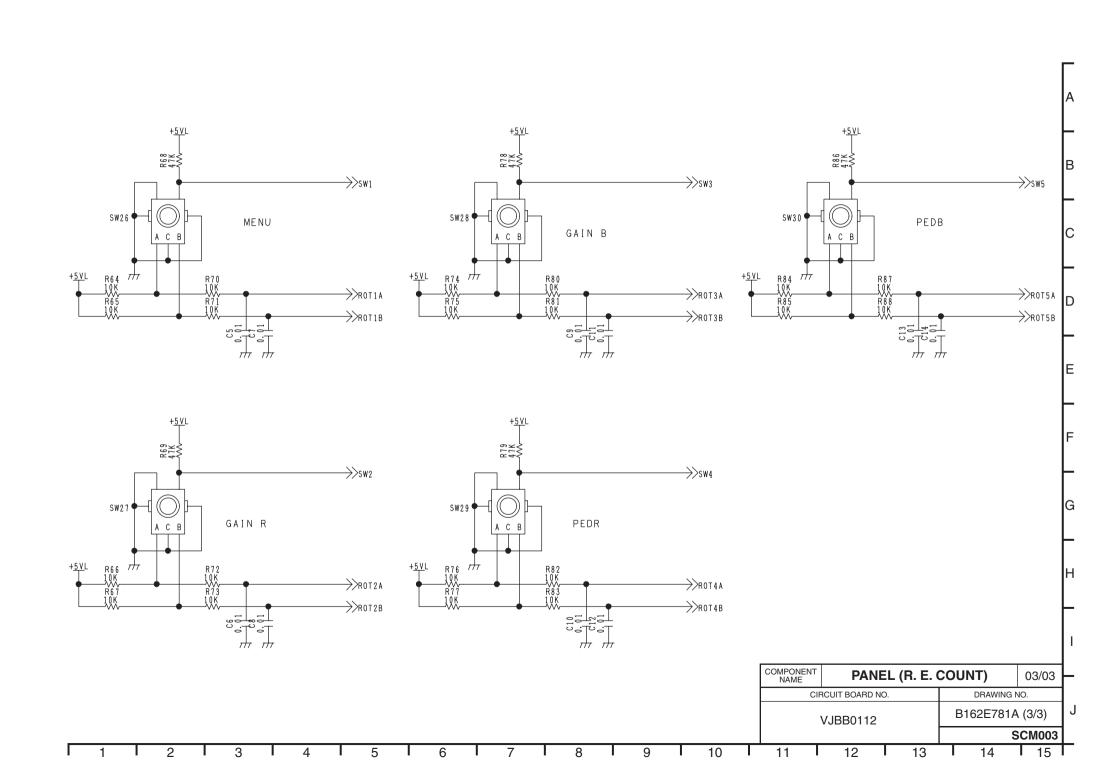
IMPORTANT SAFETY NOTICE:

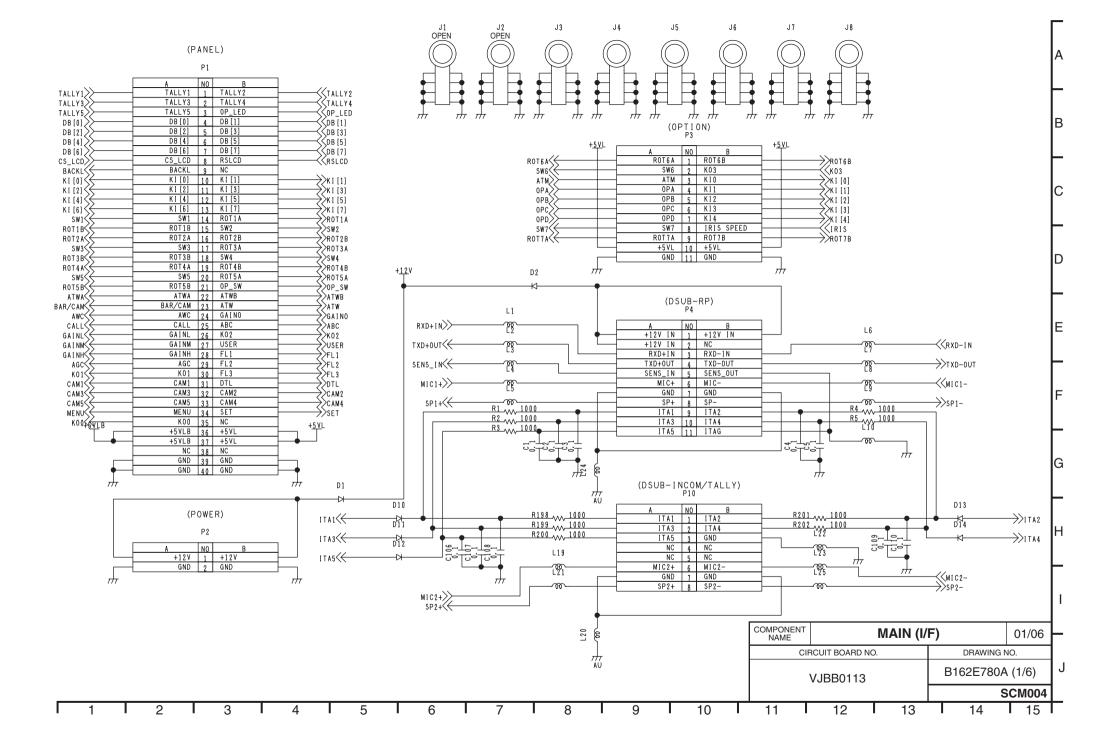
COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

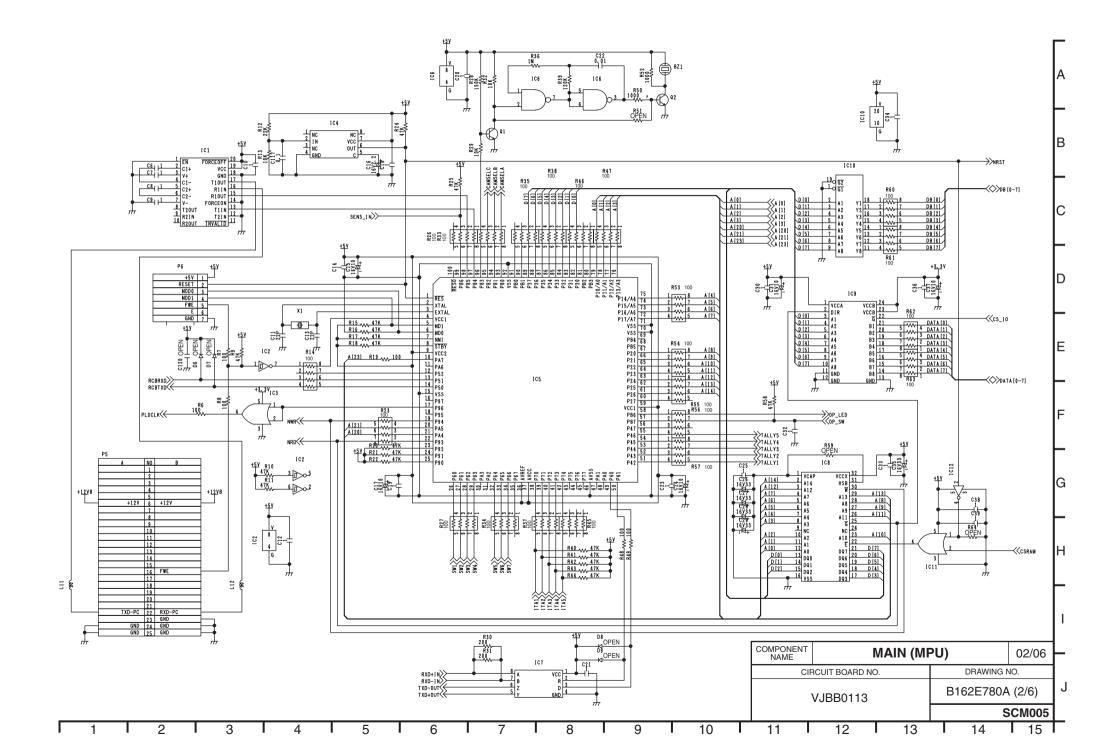
PANEL	
PANEL (1/3) (LCD/INCOM/TALLY)	SCM001
PANEL (2/3) (PANEL SWITCH)	SCM002
PANEL (3/3) (R.E. CONT)	SCM003
MAIN	
MAIN (1/6) (I/F)	SCM004
MAIN (2/6) (MPU)	SCM005
MAIN (3/6) (SERIAL I/F)	SCM006
MAIN (4/6) (POWER)	SCM007
MAIN (5/6) (INCOM)	SCM008
MAIN (6/6) (PLD)	SCM009
REAR	
REAR (1/1)	SCM010
OPTION PANEL	
OPTION (1/1)	SCM011

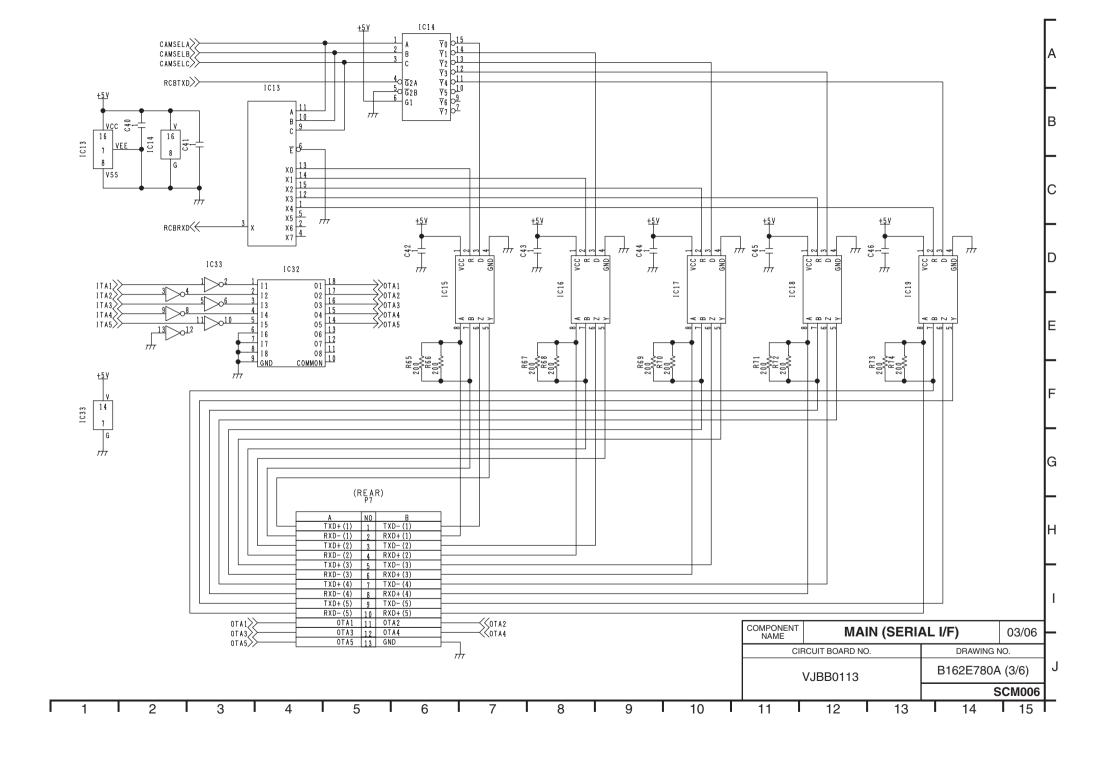


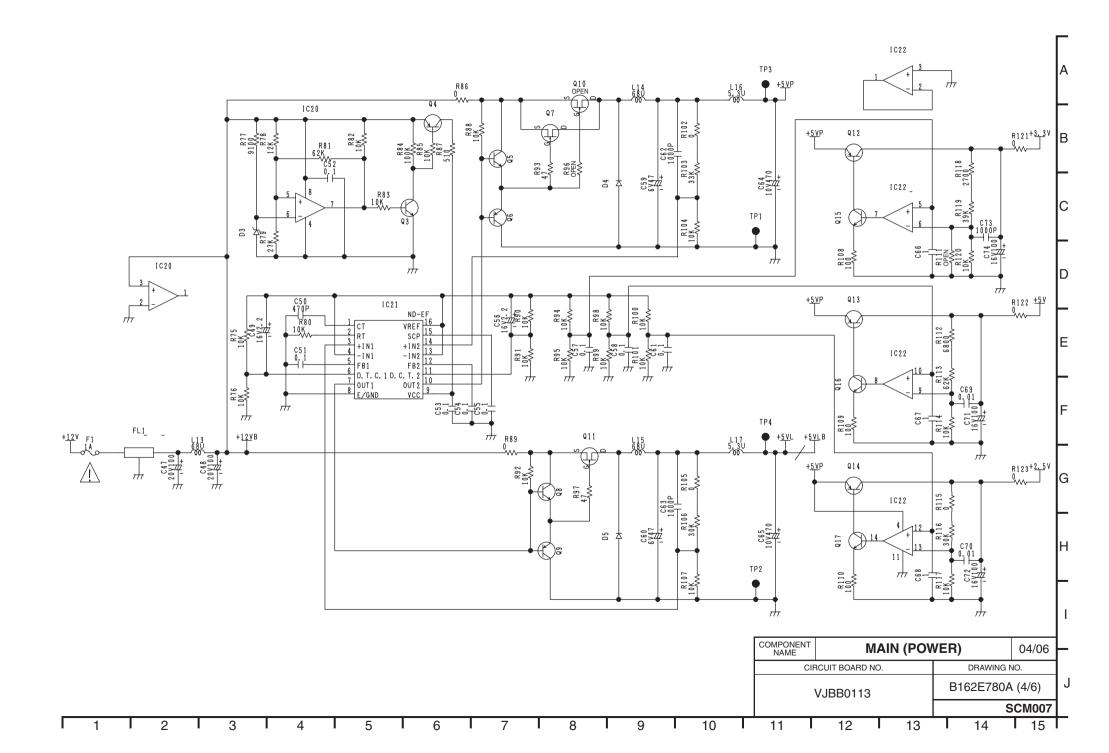


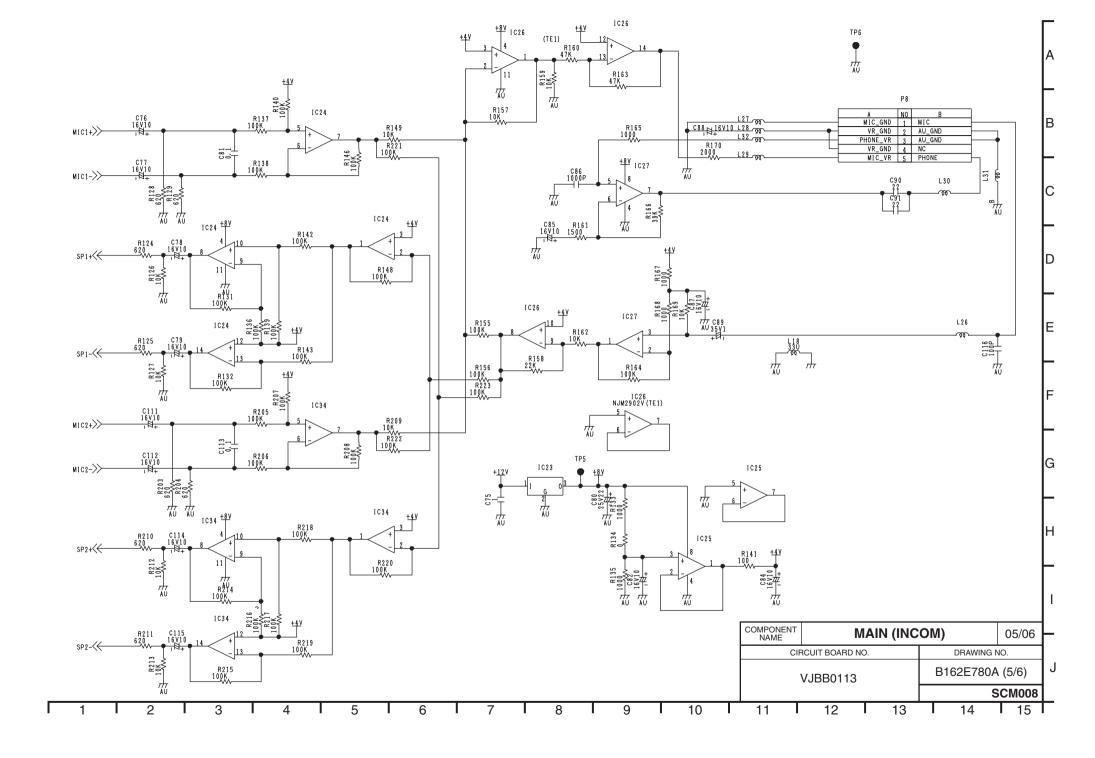


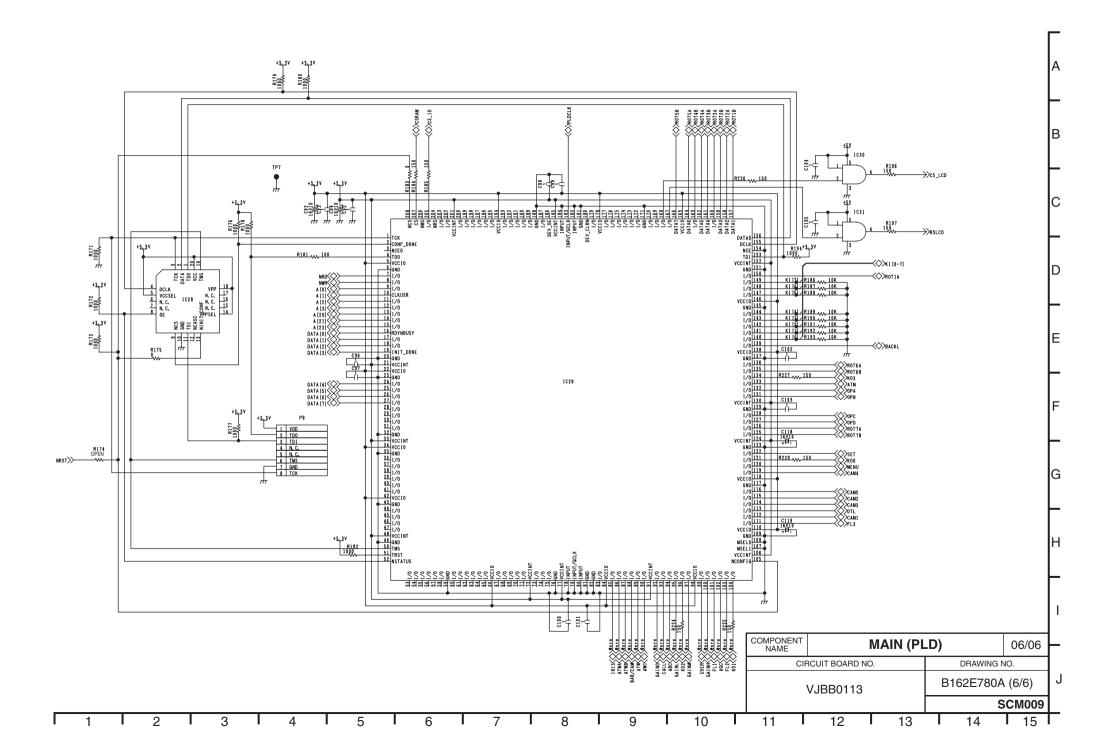


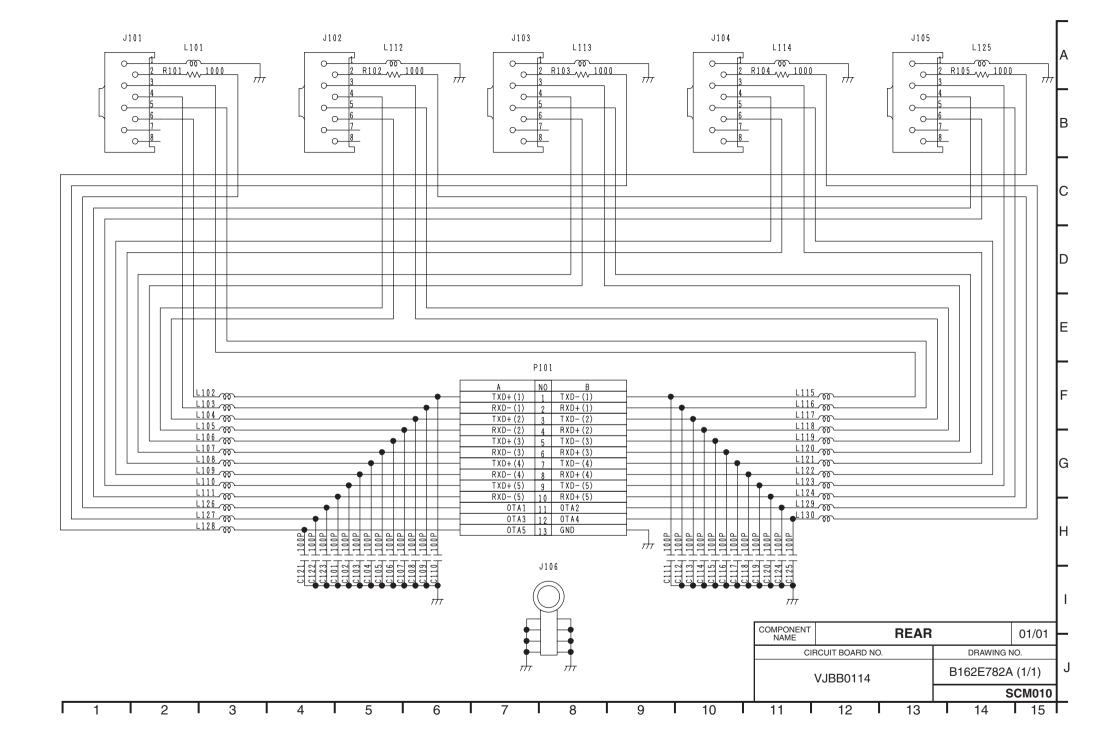


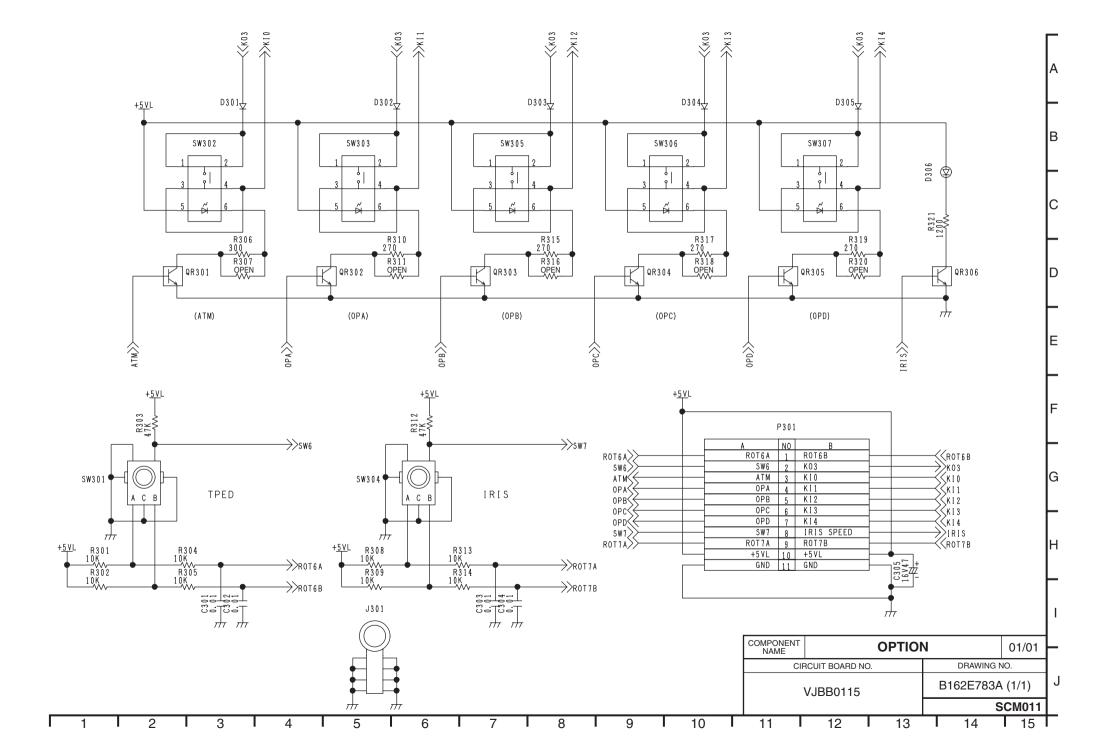












SECTION 4

CIRCUIT BOARD DIAGRAMS

NOTE:

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 7

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

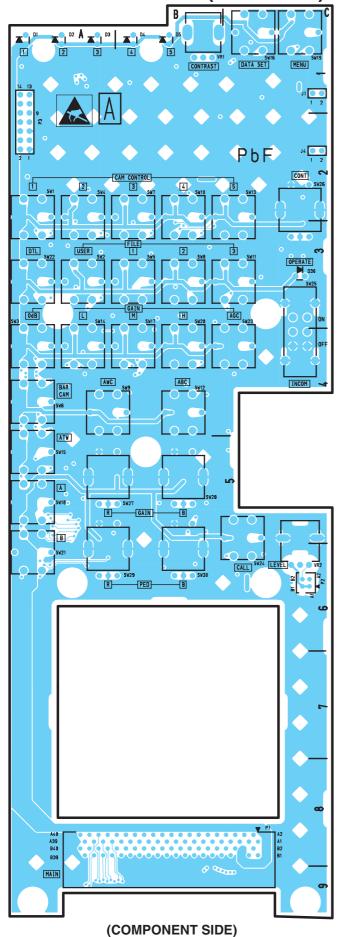
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK \triangle HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

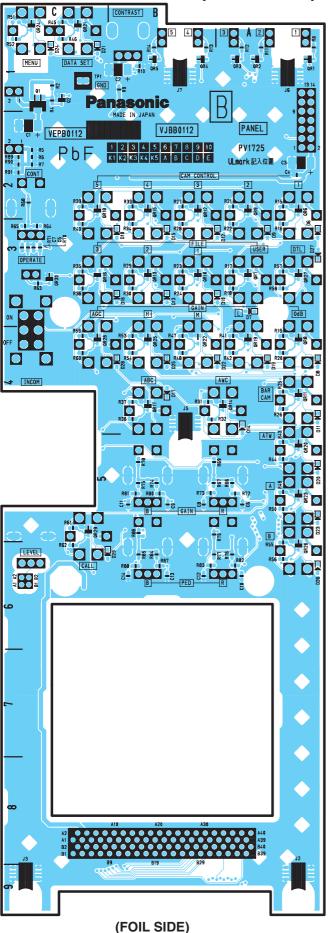
PANEL P.C.BOARD (VJBB0112)	CBA-1
MAIN P.C.BOARD (VJBB0113)	CBA-3
REAR PANEL P.C.BOARD (VJBB0114)	CBA-5
OPTION P.C.BOARD (VJBB0115)	CBA-6

PANEL P.C.BOARD (VJBB0112)



COMPONE	COMPONENT SIDE								
REF	LOC								
D1	A1								
D2	A1								
D3	A1								
D4	B1								
D5	B1								
D30	C3								
P1	C8								
P2	C6								
P3	A2								

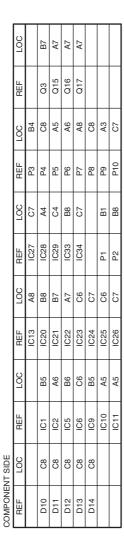
PANEL P.C.BOARD (VJBB0112)

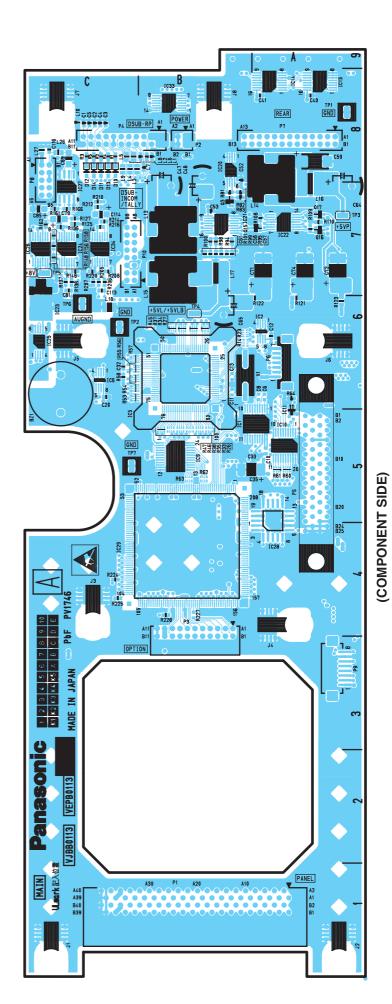


FOIL SIDE

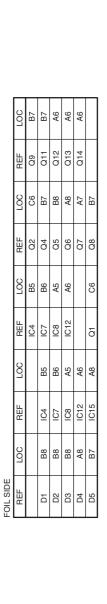
REF	LOC	REF	LOC	REF	LOC
		D25	B5	QR12	B2
D6	А3	D26	A6	QR13	B3
D7	А3	D27	A3	QR14	A4
D8	A4	D28	B4	QR15	B2
D9	А3	D29	C6	QR16	C3
D10	А3			QR17	B4
D11	A4	Q1	C1	QR18	B2
D12	A3	Q2	C1	QR19	A4
D13	B3			QR20	A5
D14	A4	QR1	A1	QR21	C1
D15	B3	QR2	A1	QR22	B4
D16	B3	QR3	A1	QR23	A5
D17	B4	QR4	B1	QR24	C1
D18	B3	QR5	B1	QR25	B4
D19	A4	QR6	A2	QR26	A6
D20	A5	QR7	А3	QR27	А3
D21	C1	QR8	A4	QR28	C4
D22	A4	QR9	A2	QR29	C6
D23	A5	QR10	B3	QR30	C3
D24	C1	QR11	A4		

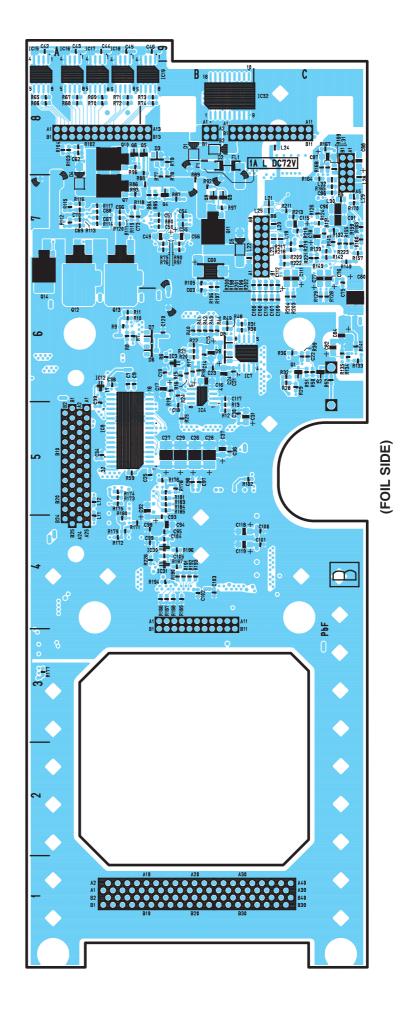
MAIN P.C.BOARD (VJBB0113)



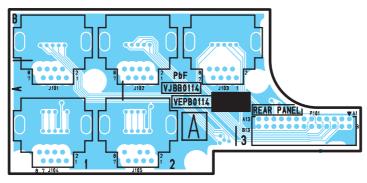


CBA-3

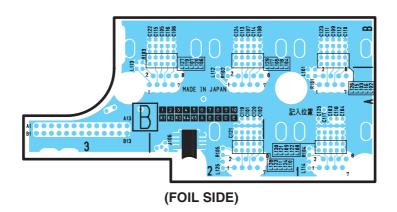




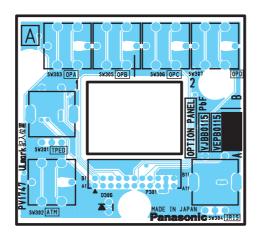
REAR PANEL P.C.BOARD (VJBB0114)



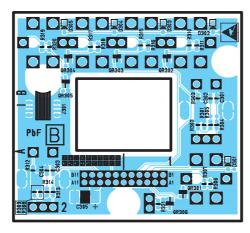
(COMPONENT SIDE)



OPTION PANEL P.C.BOARD (VJBB0115)



(COMPONENT SIDE)



(FOIL SIDE)

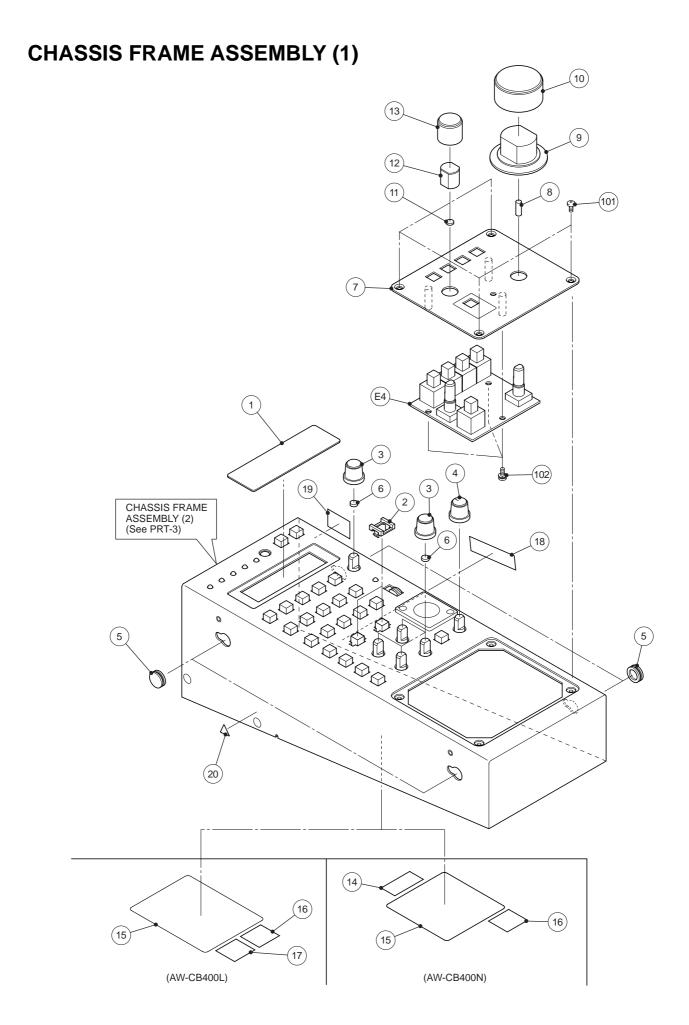
EXPLODED VIEWS REPLACEMENT PARTS LIST

Note:

- 1. *Be sure to make your orders of replacement parts according to this list.
- 2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
- The P.C. Board unit marked with "■" shown below the main assembled parts.
- 4. The parts marked with ©on the5. IMPORTANT SAFETY NOTICE The parts marked with Eon the exploded view show the electric parts.
- - Components identified with the mark \triangle have the special characteristics for safety. When replacing any of these components, use only the same type.
- 6. The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.
- 7. "M" in Remark column indicates needed in the periodical maintenance.

CONTENTS

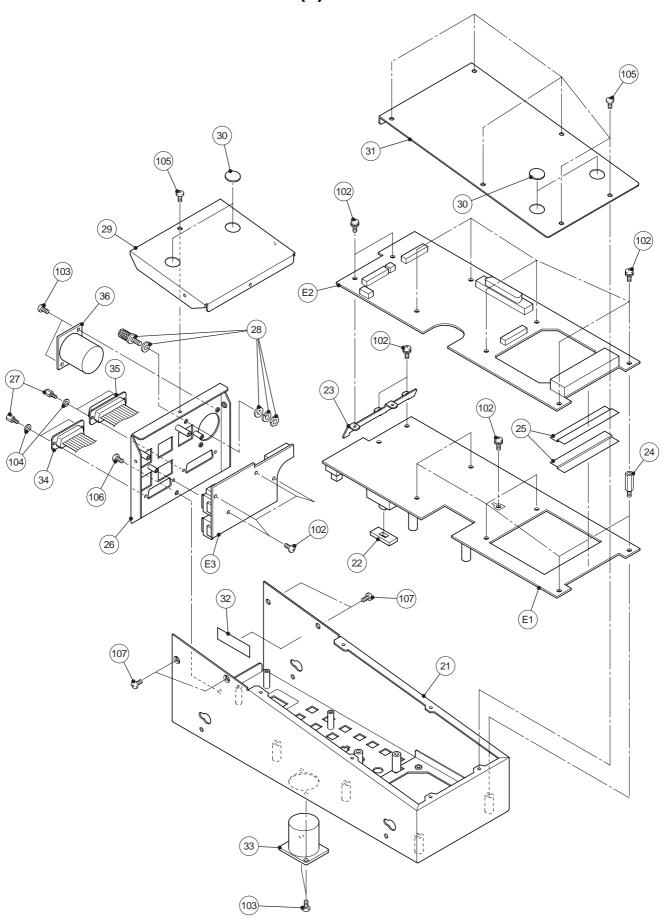
CHASSIS FRAME ASSEMBLY (1)	PRT-1
CHASSIS FRAME ASSEMBLY (2)	PRT-3
PACKAGING PARTS ASSEMBLY	PRT-5
ELECTRICAL REPLACEMENT PARTS LIST	PRT-7



CHASSIS FRAME ASSEMBLY (1)

Dof No.	Dort No.	Dort Name & Description	Dag	Domorko	Dof No	Dort No.	Bort Nama & Description	Das	Domorko
Ref. No.	Part No.	Part Name & Description	PCS	Remarks	Ref. No.	Part No.	Part Name & Description	PCS	Remarks
1	VGPB0023	LCD DECORATIVE DI ATE	1						
2	TD446MR07A	LCD DECORATIVE PLATE BUTTON GUARD	2						
3	VGUB0013	ENCODER KNOB	5						
4	V5RA0279D3	VOLUME KNOB	1						
5	VMGB0014	RUBBER CAP	4						
6	VMLB0047	ENCODER KNOB SPACER	5						
7	VGPB0024	OPTION PANEL	1						
8	VMLB0029	IRIS KNOB SPACER	1						
9	VGUB0014	IRIS KNOB SPACER	1						
10	VMGB0011	IRIS RUBBER CAP	1						
11	VMLB0041	PED KNOB SPACER	1						
12	5R1A010A	PED KNOB BASE	1						
		PED RUBBER CAP	1						
13	VMGB0010			(4.0)					
14	V7MA0106A4	CAUTION LABEL		(N)					
15	VGNB0048	MAIN LABEL		(N)					
15	VGNB0049	MAIN LABEL		(L)					
16	VQLB0077	WARNING LABEL	1						
17	VQLB0078	WARNING LABEL		(L)					
18	V7MA0099B4	CAUTION LABEL		(N)					
18	VQLB0008	CAUTION LABEL		(L)					
19	V7MA0338A4	SEE MANUAL LABEL	1						
20	V7MA0103A4	SHOCK MARK LABEL	1	(N)					
			\perp					L	
								L	
			L					L	
101	XSS26+6FJK	SCREW	4					Ĺ	
102	XYN3+J6FN	SCREW	3					Ľ	
E4	VJBB0115	OPTION P.C.BOARD	1						
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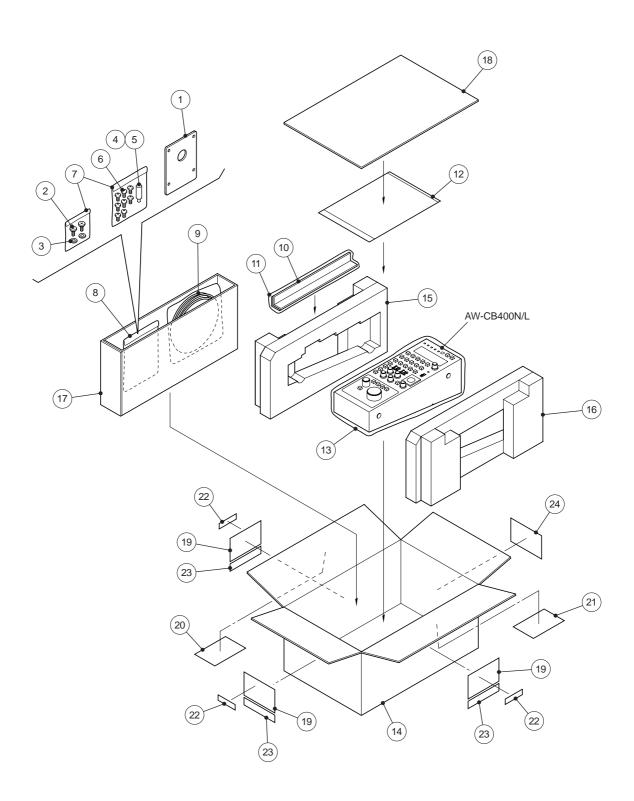
CHASSIS FRAME ASSEMBLY (2)



CHASSIS FRAME ASSEMBLY (2)

Def No	David No.	Bert News O Bereitetter	D	D	D.C.N.	David No.	Don't Name of Description	-	D
Ref. No.	Part No.	Part Name & Description	PCS	Remarks	Ref. No.	Part No.	Part Name & Description	PCS	Remarks
			<u>.</u>						
	VGPB0021	UPPER PANEL	1						
	5E1A017A	SWITCH CUSHION	1						
	VMAB0039	PCB JOINING ANGLE	1						
24	VMXB0016	PCB SPACER	6						
25	VMZB0006	INSULATOR SHEET	2						
26	VGPB0022	CONNECTOR PANEL	1						
27	DSB5055A	D-SUB SCREW	4						
	2G1A001A	GROUND TERMINAL	1						
	VMAB0038	BLANK PANEL	1						
	SJ-5003	RUBBER FOOT	4						
	VMAB0037	BOTTOM PLATE	1						
	V7MA0270A4	FUSE REPLACEMENT LABEL	_	(N)					
	VQLB0075	FUSE REPLACEMENT LABEL	_	(L)					
	VEEB0062	INCOM-MAIN CABLE	1						
	VEEB0064	DSUB-MAIN CABLE	1						
	VEEB0065	TALLY-MAIN CABLE	1						
36	VEEB0075	POWER CN CABLE	1						
37	VEEB0059	REAR-MAIN CABLE	1						
	VEEB0061	PANEL-MAIN CABLE	1						
	VEEB0063	OPTION-MAIN CABLE	1						
33	VEEDOOOS	OI HOIV-WAIN CABLE	+ '						
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	XYN3+J6FN	SCREW	15						
	XSN26+6FN	SCREW	4						
104	XWA26FN	WASHER	4					L	
105	XSB3+6FN	SCREW	7						
	XSB3+6FJK	SCREW	1						
	XSS3+6FJK	SCREW	4						
107	X000+01 01C	SCREW	+-						
			-						
			-						
			_						
E1	VJBB0112	PANEL P.C.BOARD	1						
E2	VJBB0113	MAIN P.C.BOARD	1						
E3	VJBB0114	REAR P.C.BOARD	1						
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PACKAGING PARTS ASSEMBLY



PACKAGING PARTS ASSEMBLY

2	VMXB0032 K1GA1500009 K1ZZ00000269 K3ZS4+8FJK YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQFB0019 VQFB0681 VQA0689 VQC4626 VQA0855	Part Name & Description JOIN-UP FIXTURE JOIN-UP SCREW JOINING STICKER TALLY/INCOM PLUG TALLY/INCOM CASE MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG SERVICE CENTER LIST	1 2 2 1 1 8 2 1 1 2	Remarks	Ref. No.	Part No.	Part Name & Description		Remarks
2	YWE5100EM01 VMXB0032 K1GA1500009 K1ZZ00000269 XSB4+8FJK YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQFB0019 VQF0681 VQA0689 VQC4626 VQA0855	JOIN-UP SCREW JOINING STICKER TALLY/INCOM PLUG TALLY/INCOM CASE MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	2 1 1 8 2 1 1 2 1						
2	YWE5100EM01 VMXB0032 K1GA1500009 K1ZZ00000269 XSB4+8FJK YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQFB0019 VQF0681 VQA0689 VQC4626 VQA0855	JOIN-UP SCREW JOINING STICKER TALLY/INCOM PLUG TALLY/INCOM CASE MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	2 1 1 8 2 1 1 2 1						
3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ \(\lambda\)(12-1) \\ (12-3) \\ (12-4) \\ (12-5) \\ (12-6) \\ (12-7) \\ (12-8) \\ \(\lambda\)	VMXB0032 K1GA1500009 K1ZZ00000269 XSB4+8FJK YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VVPF0681 VQA0689 VQC4626 VQA0855	JOINING STICKER TALLY/INCOM PLUG TALLY/INCOM CASE MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	2 1 1 8 2 1 1 2 1						
4	K1GA1500009 K1ZZ00000269 K3EX4+8FJK YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VQF0681 VQA0689 VQC4626 VQA0855	TALLY/INCOM PLUG TALLY/INCOM CASE MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1 1 8 2 1 1 2 1						
5	K1ZZ00000269 XSB4+8FJK YWT10X10C03 YWT12X15C03 YEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	TALLY/INCOM CASE MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1 8 2 1 1 2 1						
6	XSB4+8FJK YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	MOUNTING SCREW POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	8 2 1 1 2 1						
7	YWT10X10C03 YWT12X15C03 VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	POLYETHYLENE BAG POLYETHYLENE BAG CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1 1 2 1						
9 \\ 10 \\ 11 \\ 12 \\ \(\frac{1}{2}(12-3) \\ (12-6) \\ (12-7) \\ (12-8) \\ \(\frac{1}{2}(12-8) \\ \(\frac{1}(12-8) \\ \(\frac{1}(12-8) \	VEEB0072 VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	CONNECTING CABLE RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1 2 1						
10 V 11 F 12 V (12-1) V (12-3) V (12-4) V (12-5) V (12-6) V (12-7) X	VMAB0032 PE20X35C05B VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	RACK MOUNTING ADAPTER POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1						
11 F 12 V (12-1) V (12-3) V (12-4) V (12-5) V (12-6) V (12-7) X	PE20X35C05B VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	POLYETHYLENE BAG PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1						
12 \(\frac{1}{2}\) (12-1) \(\frac{1}{2}\) (12-3) \(\frac{1}{2}\) (12-4) \(\frac{1}{2}\) (12-5) \(\frac{1}{2}\) (12-6) \(\frac{1}{2}\) (12-7) \(\frac{1}{2}\) (12-8) \(\frac{1}{2}\)	VQFB0019 VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	PRINTED MATTERS SET OPERATING INSTRUCTIONS POLYETHYLENE BAG	1						
(12-1) \(\frac{1}{2-3}\) \(\frac{1}{2-4}\) \(\frac{1}{2-5}\) \(\frac{1}{2-6}\) \(\frac{1}{2-7}\) \(\frac{1}{2-8}\) \(\frac{1}{2-8}\) \(\frac{1}{2-8}\)	VQTB0045 VPF0681 VQA0689 VQC4626 VQA0855	OPERATING INSTRUCTIONS POLYETHYLENE BAG							
(12-3) \(\text{V}\) (12-4) \(\text{V}\) (12-5) \(\text{V}\) (12-6) \(\text{V}\) (12-7) \(\text{V}\) (12-8) \(\text{V}\)	VPF0681 VQA0689 VQC4626 VQA0855	POLYETHYLENE BAG	1	(N)					
(12-4) \(\frac{1}{2-5}\) \(\frac{1}{2-6}\) \(\frac{1}{2-7}\) \(\frac{1}{2-8}\) \(\frac{1}{2-8}\)	VQA0689 VQC4626 VQA0855								
(12-5) \(\) (12-6) \(\) (12-7) \(\) (12-8) \(\)	VQC4626 VQA0855	SERVICE CENTER LIST	1						
(12-6) \\ (12-7) \\ (12-8) \\	VQA0855		1	(NORTH AMERICA)					
(12-7) X		SAFETY CARD	1	(NORTH AMERICA)					
(12-8)	XZG89X190KG2	WARRANTY CARD	1	(JAPAN)					
		WARRANTY CARD BAG	1	(JAPAN)					
12 I\		WARRANTY CARD	1	(NORTH AMERICA)					
		PRINTED MATTERS SET		(L)					
		OPERATING INSTRUCTIONS	-	(EUROPE)	<u> </u>			\vdash	
		OPERATING INSTRUCTIONS		(CHINA)	—			H	
		POLYETHYLENE BAG	1		<u> </u>			\vdash	
		AREA SHEET	1					\vdash	
		POLYETHYLENE BAG	1					H	
		PACKAGING CASE CUSHIONING (L)	1		—				
		CUSHIONING (L) CUSHIONING (R)	1		\vdash			\vdash	
		ACCESSORY PAD	1						
		UPPER PAD	1						
		PACKAGING LABEL	_	(N)					
		PACKAGING LABEL		(L)					
		OPERATION LABEL		(N)					
	VQLB0050	OPERATION LABEL	1						
		CAUTION LABEL		(L)					
		NAME LABEL	_	(L)					
		ORIGIN LABEL		(L)					
	VQL0X01	QUALITY LABEL	-	(L)					
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ELECTRICAL REPLACEMENT PARTS LIST

Dof No	Dort No	Part Name 9 Description	D-	Domarka	Dof No.	Dort N-	Part Name 9 Description	Dan	. Domortic
Ref. No.	Part No.	Part Name & Description	PCS	Remarks	Ref. No.	Part No.	Part Name & Description		Remarks
	VIDDOMA	DANEL DO DOADD		(DTL)	QR4	UNR521400L	TRANSISTOR	1	
■ E1	VJBB0112	PANEL P.C.BOARD	1	(RTL)	QR5	UNR521400L	TRANSISTOR	1	
= F2	V IDD0442	MAINIDO DOADD	- 1	(DTL)	QR6	UNR521400L	TRANSISTOR	1	
■ E2	VJBB0113	MAIN P.C.BOARD	1	(RTL)	QR7 QR8	UNR521400L UNR521400L	TRANSISTOR	1	
■ E3	VJBB0114	REAR P.C.BOARD	1	(RTL)	QR9	UNR521400L UNR521400L	TRANSISTOR TRANSISTOR	1	
E 5	V3BB0114	REAR F.C.BOARD	-	(KTL)	QR10	UNR521400L	TRANSISTOR	1	
■ E4	VJBB0115	OPTION P.C.BOARD	1	(RTL)	QR11	UNR521400L	TRANSISTOR	1	
	10000110	or mentioned and		(***2)	QR12	UNR521400L	TRANSISTOR	1	
					QR13	UNR521400L	TRANSISTOR	1	
					QR14	UNR521400L	TRANSISTOR	1	
					QR15	UNR521400L	TRANSISTOR	1	
					QR16	UNR521400L	TRANSISTOR	1	
■ E1	VJBB0112	PANEL P.C.BOARD	1	(RTL)	QR17	UNR521400L	TRANSISTOR	1	
					QR18	UNR521400L	TRANSISTOR	1	
					QR19	UNR521400L	TRANSISTOR	1	
C1	F3H1C476A049	T.CAPACITOR CH 16V 47U	1		QR20	UNR521400L	TRANSISTOR	1	
C2	F3H1C476A049	T.CAPACITOR CH 16V 47U	1		QR21	UNR521400L	TRANSISTOR	1	
C3	F3H1C476A049	T.CAPACITOR CH 16V 47U	1		QR22	UNR521400L	TRANSISTOR	1	
C4	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		QR23	UNR521400L	TRANSISTOR	1	
C5	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR24	UNR521400L	TRANSISTOR	1	
C6	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR25	UNR521400L	TRANSISTOR	1	
C7	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR26	UNR521400L	TRANSISTOR	1	
C8	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR27	UNR521400L	TRANSISTOR	1	
C9	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR28	UNR521400L	TRANSISTOR	1	
C10	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR29	UNR521400L	TRANSISTOR	1	
C11	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		QR30	UNR521400L	TRANSISTOR	1	
C12	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1						
C13	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		R2	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
C14	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1		R4	ERJ3GEYJ821V	M.RESISTOR CH 1/16W 820	1	
L					R5		M.RESISTOR CH 1/16W 22	1	
D1	LN28RPX	DIODE	1		R6		M.RESISTOR CH 1/16W 22	1	
D2	LN28RPX	DIODE	1		R7	ERJ3GEYJ220V	M.RESISTOR CH 1/16W 22	1	
D3	LN28RPX	DIODE	1		R8	ERJ3GEYJ122V	M.RESISTOR CH 1/16W 1.2K	1	
D4	LN28RPX	DIODE	1		R9	ERJ3GEYJ392V	M.RESISTOR CH 1/16W 3.9K	1	
D5	LN28RPX	DIODE	1		R10		M.RESISTOR CH 1/16W 0	1	
D6	MA2J11100L	DIODE	1		R11		M.RESISTOR CH 1/16W 1.2K	1	
D7	MA2J11100L	DIODE	1		R12	ERJ3GEYJ122V ERJ3GEYJ122V	M.RESISTOR CH 1/16W 1.2K	1	
D8 D9	MA2J11100L MA2J11100L	DIODE	1		R13 R14	ERJ3GEYJ122V ERJ3GEYJ122V	M.RESISTOR CH 1/16W 1.2K M.RESISTOR CH 1/16W 1.2K	1	
D10	MA2J11100L	DIODE	1		R15	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D10	MA2J11100L	DIODE	1		R17		M.RESISTOR CH 1/16W 270	1	
D12	MA2J11100L	DIODE	1		R19		M.RESISTOR CH 1/16W 270	1	
D13	MA2J11100L	DIODE	1		R21		M.RESISTOR CH 1/16W 270	1	
D14	MA2J11100L	DIODE	1		R23	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D15	MA2J11100L	DIODE	1		R25		M.RESISTOR CH 1/16W 240	1	
D16	MA2J11100L	DIODE	1		R27		M.RESISTOR CH 1/16W 270	1	
D17	MA2J11100L	DIODE	1		R29	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D18	MA2J11100L	DIODE	1		R31	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D19	MA2J11100L	DIODE	1		R33	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D20	MA2J11100L	DIODE	1		R35	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D21	MA2J11100L	DIODE	1		R37	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D22	MA2J11100L	DIODE	1		R39	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D23	MA2J11100L	DIODE	1		R41	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D24	MA2J11100L	DIODE	1		R43	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
D25	MA2J11100L	DIODE	1		R45		M.RESISTOR CH 1/16W 300	1	
D26	MA2J11100L	DIODE	1		R47		M.RESISTOR CH 1/16W 270	1	
D27	MA2J11100L	DIODE	1		R49		M.RESISTOR CH 1/16W 270	1	
D28	MA2J11100L	DIODE	1		R51	ERJ3GEYJ301V	M.RESISTOR CH 1/16W 300	1	
D29	MA2J11100L	DIODE	1		R53		M.RESISTOR CH 1/16W 270	1	
D30	LN38GPX	DIODE	1		R55	ERJ3GEYJ271V	M.RESISTOR CH 1/16W 270	1	
L.	14144	1401/			R57		M.RESISTOR CH 1/16W 240	1	
J1	K1KA02A00070	JACK	1		R59		M.RESISTOR CH 1/16W 300	1	
J4	K1KA02A00070	JACK	1		R61		M.RESISTOR CH 1/16W 390	1	
J5	K4CD01000007	JACK	1		R63		M.RESISTOR CH 1/16W 1.2K	1	
D4	K1KA90B00001	CONNECTOR	-		R64	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
P1	K1KA80B00004	CONNECTOR	1		R65	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
P2	K1KA04A00131	CONNECTOR	1		R66	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	_	
P3	K1KA14A00072	CONNECTOR	1		R67 R68	ERJ3GEYJ103V ERJ3GEYJ473V	M.RESISTOR CH 1/16W 10K	1	
Q1	2SB0766ALL	TRANSISTOR	1		R69	ERJ3GEYJ473V ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K M.RESISTOR CH 1/16W 47K	1	
Q2	2300100ALL	TRANSISTOR	1		R70		M.RESISTOR CH 1/16W 47K	1	
	LINR5214001			ı I	1770			-	
Q2	UNR521400L	TRANSISTOR			R71	EB I3GEA 14U3/1	M RESISTOR OH 1/16/M 10V		
					R71		M.RESISTOR CH 1/16W 10K	1	
QR1	UNR521400L	TRANSISTOR	1		R72	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
								_	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R75	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R76	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R77	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R78	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1	
R79	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1	
R80	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R80	ERJ3GEYJ220V	M.RESISTOR CH 1/16W 22	1	
R81	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R82	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R83 R84	ERJ3GEYJ103V ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K	1	
R85	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R86	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1	
R87	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R88	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R90	ERJ3GEYJ220V	M.RESISTOR CH 1/16W 22	1	
R91	ERJ3GEYJ220V	M.RESISTOR CH 1/16W 22	1	
SW1	K0F111A00115	SWITCH	1	
SW2	K0F111A00115	SWITCH	1	
SW3	K0F111A00115	SWITCH	1	
SW4	K0F111A00115	SWITCH	1	
SW5 SW6	K0F111A00115 K0F111A00409	SWITCH	1	
SW7	K0F111A00409	SWITCH	1	
SW8	K0F111A00115	SWITCH	1	
SW9	K0F111A00115	SWITCH	1	
SW10	K0F111A00115	SWITCH	1	
SW11	K0F111A00115	SWITCH	1	
SW12	K0F111A00115	SWITCH	1	
SW13	K0F111A00115	SWITCH	1	
SW14	K0F111A00117	SWITCH	1	
SW15	K0F111A00117	SWITCH	1	
SW16	K0F111A00116	SWITCH	1	
SW17	K0F111A00117	SWITCH	1	
SW18 SW19	K0F111A00115	SWITCH	1	
SW20	K0F111A00116 K0F111A00117	SWITCH	1	
SW21	K0F111A00117	SWITCH	1	
SW22	K0F111A00409	SWITCH	1	
SW23	K0F111A00116	SWITCH	1	
SW24	K0F111A00408	SWITCH	1	
SW25	K0D122A00067	SWITCH	1	
SW26	K9AA01800001	SWITCH	1	
SW27	K9AA01800001	SWITCH	1	
SW28	K9AA01800001	SWITCH	1	
SW29	K9AA01800001	SWITCH	1	
SW30	K9AA01800001	SWITCH	1	
TD4	DOVDDOOOOAA	TEGT DOINT	_	
TP1	D0YDR0000011	TEST POINT	1	
VR1	D2BEA13B0005	V.RESISTOR 1K	1	
VR1	D2AAA13B0003	V.RESISTOR 1K	1	
-			Ė	
		MISCELLANEOUS		
	L5ADBGB00001	LCD	1	
			_	
	VIDDOMA	MAINIBORGARS	-	(DTL)
■ E2	VJBB0113	MAIN P.C.BOARD	1	(RTL)
BZ1	L0DCDA000016	BUZZER	1	
DEI	2020271000010	DOZZER	H.	
C1	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C2	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C3	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C4	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C5	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C6	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C7	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C8	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C9	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	

Ref. No.	Part No.		Pcs	Remarks
C10 C11	F1H1A105A004 F1H1H220A231	C.CAPACITOR CH 10V 1U C.CAPACITOR CH 50V 22P	1	
C12	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C13	F1H1H220A231	C.CAPACITOR CH 50V 22P	1	
C14	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C15 C16	F3F1C106A039 F3F1C225A034	T.CAPACITOR CH 16V 10U T.CAPACITOR CH 16V 2.2U	1	
C17	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C18	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C19	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C20 C21	F1H1A105A004 F1H1A105A004	C.CAPACITOR CH 10V 1U C.CAPACITOR CH 10V 1U	1	
C22	F1H1H103A219	C.CAPACITOR CH 50V 0.01U	1	
C23	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C24	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C25 C26	F1H1A105A004 F3H1C336A044	C.CAPACITOR CH 10V 1U T.CAPACITOR CH 16V 33U	1	
C27	F3H1C336A044	T.CAPACITOR CH 16V 33U	1	
C28	F3H1C336A044	T.CAPACITOR CH 16V 33U	1	
C29	F3H1C336A044	T.CAPACITOR CH 16V 33U	1	
C30	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C31 C32	F3F1C106A039 F1H1A105A004	C.CAPACITOR CH 16V 10U	1	
C33	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C34	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C35	F3H1C336A044	T.CAPACITOR CH 16V 33U	1	
C36 C37	F1H1A105A004 F3F1C106A039	C.CAPACITOR CH 10V 1U T.CAPACITOR CH 16V 10U	1	
C38	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C39	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C40	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C41	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C42 C43	F1H1A105A004 F1H1A105A004	C.CAPACITOR CH 10V 1U C.CAPACITOR CH 10V 1U	1	
C43	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C45	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C46	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C47	F2D1D1010003	E.CAPACITOR CH 20V 100U	1	
C48 C49	F2D1D1010003 F3F1C225A034	E.CAPACITOR CH 20V 100U T.CAPACITOR CH 16V 2.2U	1	
C50	F1H1H4710003	C.CAPACITOR CH 50V 470P	1	
C51	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C52	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C53 C54	F1H1E104A016 F1H1E104A016	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 25V 0.1U	1	
C55	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C56	F3F1C225A034	T.CAPACITOR CH 16V 2.2U	1	
C57	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C58 C59	F1H1E104A016 EEFCD0J470R	C.CAPACITOR CH 25V 0.1U E.CAPACITOR CH 6.3V 47U	1	
C60	EEFCD0J470R	E.CAPACITOR CH 6.3V 47U	1	
C61	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C62	F1H1E1020002	C.CAPACITOR CH 25V 1000P	1	
C63 C64	F1H1E1020002 F2D1D4700002	C.CAPACITOR CH 25V 1000P E.CAPACITOR CH 20V 47U	1	
C65	F2D1D4700002	E.CAPACITOR CH 20V 47U	1	
C66	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C67	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C68	F1H1A105A004	C.CAPACITOR CH 10V 1U	1	
C69 C70	F1H1H103A219 F1H1H103A219	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 50V 0.01U	1	
C71	F3H1C107A048	T.CAPACITOR CH 16V 100U	1	
C72	F3H1C107A048	T.CAPACITOR CH 16V 100U	1	
C73	F1H1E1020002	C.CAPACITOR CH 25V 1000P	1	
C74 C75	F3H1C107A048 F1H1A105A004	T.CAPACITOR CH 16V 100U C.CAPACITOR CH 10V 1U	1	
C76	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C77	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C78	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C79 C80	F3F1C106A039 F3H1E226A027	T.CAPACITOR CH 16V 10U T.CAPACITOR CH 25V 22U	1	
C81	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
C82	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C84	F3F1C106A039	T.CAPACITOR CH 16V 10U	1	
C85 C86	F3F1C106A039 F1H1E1020002	T.CAPACITOR CH 16V 10U C.CAPACITOR CH 25V 1000P	1	
000		0.5/11/10/10/N 01120V 1000P	1 1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & I
C87	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		IC28	UM2A004A	IC
C88	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		IC29	C1ZBZ0001794	IC
C89	F3F1V105A028	T.CAPACITOR CH 35V 1U	1		IC30	C0JBAA000002	IC
C90	ECJ4YF1C226Z	C.CAPACITOR CH 16V 22U	1		IC31	C0JBAA000002	IC
C91	ECJ4YF1C226Z	C.CAPACITOR CH 16V 22U	1		IC32	B1HBGFG00011	IC
C92	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		IC33	C0JBAB000436	IC
C93	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		IC34	C0ABCA000017	IC
C94	F3F1C106A039	T.CAPACITOR CH 16V 10U	1				
C95	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		J3	K4CD01000007	JACK
C96	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		J4	K4CD01000007	JACK
C97	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		J5	K4CD01000007	JACK
C98	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		J6	K4CD01000007	JACK
C99	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		J7	K4CD01000007	JACK
C100	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		J8	K4CD01000007	JACK
C101	F1H1A105A004	C.CAPACITOR CH 10V 1U	1				
C102	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		L1	J0JBC0000005	COIL
C103	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		L2	J0JBC0000005	COIL
C104	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		L3	J0JCC0000004	COIL
C105	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		L4	J0JCC0000004	COIL
C106	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L5	J0JCC0000004	COIL
C107	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L6	J0JBC0000005	COIL
C108	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L7	J0JBC0000005	COIL
C109	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L8	J0JCC0000004	COIL
C110	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L9	J0JCC0000004	COIL
C111	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		L10	J0JCC0000004	COIL
C112	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		L11	J0JBC0000005	COIL
C113	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L12	J0JBC0000005	COIL
C114	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		L13	G1C680M00014	COIL
C115	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		L14	G1C680M00014	COIL
C116	F1H1H101A231	C.CAPACITOR CH 50V 100P	1		L15	G1C680M00014	COIL
C117	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		L16	G1C5R3ZA0012	COIL
C118	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		L17	G1C5R3ZA0012	COIL
C119	F3F1C106A039	T.CAPACITOR CH 16V 10U	1		L18	G1C330KA0064	COIL
	D0 10DE00047	DIODE			L19	J0JCC0000004	COIL
D1	B0JCPE000017	DIODE	1		L20	J0JCC0000004	COIL
D2	B0JCPE000017	DIODE	1		L21	J0JCC0000004	COIL
D3	MAZ30620ML	DIODE	1		L22	J0JCC0000004	
D4 D5	B0JCME000014 B0JCME000014	DIODE	1		L23 L24	J0JCC0000004 J0JCC0000004	COIL
D10	MA2J11100L	DIODE	1		L24 L25	J0JCC0000004	COIL
D10	MA2J11100L	DIODE	1		L25	J0JBC0000005	COIL
D11	MA2J11100L	DIODE	1		L26	J0JCC0000004	COIL
D12	MA2J11100L	DIODE	1		L27	J0JCC0000004	COIL
D13	MA2J11100L	DIODE	1		L28	J0JCC0000004	COIL
D14	WAZSTITOOL	BIODE	i i		L29	J0JCC0000004	COIL
F1	K5H102300010	FUSE	1		L30	J0JCC0000004	COIL
	K311102300010	I OSE	i i		L31	J0JCC0000004	COIL
FL1	J0JHA0000001	FILTER	1		L32	J0JCC0000004	COIL
121	00011/10000001	T IETEK	i i		LUZ	0000000004	OOIL
IC1	C0ZBZ0000220	IC	1		P1	K1KA80B00004	CONNECTOR
IC2	C0JBAZ000525	IC	1		P2	K1KA04A00131	CONNECTOR
IC3	C0JBAE000093	IC	1		P3	K1KA22B00010	CONNECTOR
IC4	C0EBH0000062	IC	1		P4	K1KA22A00014	CONNECTOR
IC5		IC	1		P5	K1FA150A0011	CONNECTOR
IC6	C0JBAC000113	IC	1		P6	K1KA07A00079	CONNECTOR
IC7		IC	1		P7	K1KA26A00071	CONNECTOR
IC8	C3ZAD0000015	IC	1		P8	K1KA10A00140	CONNECTOR
IC9	C0JBAZ000531	IC	1		P9	K1KA08B00147	CONNECTOR
IC10	C0JBAZ000109	IC	1		P10	K1KA16A00082	CONNECTOR
IC11	C0JBAE000005	IC	1		1 10	10110100002	CONTECTOR
IC12	C0JBAB000202	IC	1		Q1	2SD1819ALL	TRANSISTOR
IC12	C0JBAS000134	IC	1		Q2	2SD1819ALL	TRANSISTOR
IC14		IC	1		Q3	2SD1819ALL	TRANSISTOR
IC14		IC	1		Q3 Q4	2SB1219A0L	TRANSISTOR
IC16	C1DB00000146	IC	1		Q5	2SD1219A0L 2SD1819ALL	TRANSISTOR
IC17		IC	1		Q6	2SB1219A0L	TRANSISTOR
IC18	C1DB00000146	IC	1		Q7	B1DHCD000005	TRANSISTOR
IC19	C1DB00000146	IC	1		Q8	2SD1819ALL	TRANSISTOR
IC20		IC	1		Q9	2SB1218ALL	TRANSISTOR
IC20	C0DBAKZ00001	IC	1		Q11	B1DHCD000005	TRANSISTOR
IC21	C0DBAR200001 C0ABCA000017	IC	1		Q11	2SB0936APL	TRANSISTOR
IC23	C0CBAGE00005		1		Q12 Q13	2SB0936APL 2SB0936APL	TRANSISTOR
	C0CBAGE00005 C0ABCA000017		1		Q14	B1BCGC000001	TRANSISTOR
IC:24	200D04000011		-		Q14 Q15	2SD1819ALL	TRANSISTOR
IC24	COARRAGGOSE	IIC.	1 1				
IC25	C0ABBA000025		1				
	C0ABCA000017	IC IC	1 1		Q16 Q17	2SD1819ALL 2SD1819ALL	TRANSISTOR TRANSISTOR

D.C.N.	Down No.	Boot Nove & Books that	-	Dd.
Ref. No.	Part No.	•	Pcs	Remarks
IC28	UM2A004A	IC IC	1	
IC29 IC30	C1ZBZ0001794 C0JBAA000002	IC IC	1	
IC31	C0JBAA000002	IC	1	
IC32	B1HBGFG00011	IC	1	
IC33	C0JBAB000436	IC	1	
IC34	C0ABCA000017	IC	1	
J3	K4CD01000007	JACK	1	
J4 J5	K4CD01000007 K4CD01000007	JACK JACK	1	
J6	K4CD01000007	JACK	1	
J7	K4CD01000007	JACK	1	
J8	K4CD01000007	JACK	1	
L1	J0JBC0000005	COIL	1	
L2	J0JBC0000005	COIL	1	
L3 L4	J0JCC0000004	COIL	1	
L5	J0JCC0000004 J0JCC0000004	COIL	1	
L6	J0JBC0000005	COIL	1	
L7	J0JBC0000005	COIL	1	
L8	J0JCC0000004	COIL	1	
L9	J0JCC0000004	COIL	1	
L10	J0JCC0000004	COIL	1	
L11	J0JBC0000005	COIL	1	
L12	J0JBC0000005	COIL	1	
L13	G1C680M00014	COIL	1	
L14	G1C680M00014	COIL	1	
L15 L16	G1C680M00014 G1C5R3ZA0012	COIL	1	
L17	G1C5R3ZA0012	COIL	1	
L18	G1C330KA0064	COIL	1	
L19	J0JCC0000004	COIL	1	
L20	J0JCC0000004	COIL	1	
L21	J0JCC0000004	COIL	1	
L22	J0JCC0000004	COIL	1	
L23	J0JCC0000004	COIL	1	
L24	J0JCC0000004	COIL	1	
L25	J0JCC0000004	COIL	1	
L26 L26	J0JBC0000005 J0JCC0000004	COIL	1	
L27	J0JCC0000004	COIL	1	
L28	J0JCC0000004	COIL	1	
L29	J0JCC0000004	COIL	1	
L30	J0JCC0000004	COIL	1	
L31	J0JCC0000004	COIL	1	
L32	J0JCC0000004	COIL	1	
P1	K1KA80B00004	CONNECTOR	1	
P2	K1KA04A00131	CONNECTOR	1	
P3 P4	K1KA22B00010 K1KA22A00014	CONNECTOR CONNECTOR	1	
P5	K1FA150A0011	CONNECTOR	1	
P6	K1KA07A00079	CONNECTOR	1	
P7	K1KA26A00071	CONNECTOR	1	
P8	K1KA10A00140	CONNECTOR	1	
P9	K1KA08B00147	CONNECTOR	1	
P10	K1KA16A00082	CONNECTOR	1	
04	0001010	TRANSISTOR	.	
Q1	2SD1819ALL	TRANSISTOR	1	
Q2 O3	2SD1819ALL	TRANSISTOR	1	
Q3 Q4	2SD1819ALL 2SB1219A0L	TRANSISTOR TRANSISTOR	1	
Q4 Q5	2SD1819AUL	TRANSISTOR	1	
Q6	2SB1219A0L	TRANSISTOR	1	
Q7	B1DHCD000005	TRANSISTOR	1	
Q8	2SD1819ALL	TRANSISTOR	1	
Q9	2SB1218ALL	TRANSISTOR	1	
Q11	B1DHCD000005	TRANSISTOR	1	
Q12	2SB0936APL	TRANSISTOR	1	
Q13	2SB0936APL	TRANSISTOR	1	
Q14 O15	B1BCGC000001	TRANSISTOR	1	
Q15 Q16	2SD1819ALL 2SD1819ALL	TRANSISTOR TRANSISTOR	1	
0.17	200 10 10 ALL		⊢ :	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	\perp
					R79	ER
R1	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1		R80	ER
R2 R3	ERJ3GEYJ102V ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 1K	1		R81 R82	ER
R4	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1		R83	ER
R5	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1		R84	ER
R6	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1		R85	ER
R7	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1		R86	ER
R8	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1		R87	EF
R9	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R88	EF
R10	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R89	EF
R11	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R90	EF
R12	ERJ3GEYJ223V	M.RESISTOR CH 1/16W 22K	1		R91	EF
R13	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1		R92	EF
R14 R15	D1H810140003 ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R93 R94	EF
R16	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R95	EF
R17	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R97	EF
R18	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R98	EF
R19	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1		R99	EF
R20	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R100	EF
R21	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R101	EF
R22	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R102	EF
R23	D1H810140003	BLOCK RESISTOR 100	1		R103	EF
R24	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R104	EF
R25	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R105	EF
R26 R27	D1H810140003 D1H810140003	BLOCK RESISTOR 100 BLOCK RESISTOR 100	1		R106 R107	EF
R28	ERJ3GEYJ154V	M.RESISTOR CH 1/16W 150K	1		R108	EF
R29	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1		R109	EF
R30	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R110	EF
R31	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R112	EF
R32	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1		R113	EF
R33	D1H810140003	BLOCK RESISTOR 100	1		R114	EF
R34	D1H810140003	BLOCK RESISTOR 100	1		R115	EF
R35	D1H810140003	BLOCK RESISTOR 100	1		R116	EF
R36	ERJ3GEYJ105V	M.RESISTOR CH 1/16W 1M	1		R117	EF
R37	D1H810140003	BLOCK RESISTOR 100	1		R118	EF
R38 R39	D1H810140003 ERJ3GEYJ124V	M.RESISTOR CH 1/16W 120K	1		R119 R120	EF
R40	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R121	EF
R41	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R122	EF
R42	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R123	EF
R43	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R124	EF
R44	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R125	EF
R45	D1H810140003	BLOCK RESISTOR 100	1		R126	EF
R46	D1H810140003	BLOCK RESISTOR 100	1		R127	EF
R47	D1H810140003	BLOCK RESISTOR 100	1		R128	EF
R48	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1		R129	EF
R49		M.RESISTOR CH 1/16W 100	1		R131	EF
R50 R52	ERJ3GEYJ102V ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 1K	1		R132 R133	EF
R53	D1H810140003	BLOCK RESISTOR 100	1		R134	EF
R54	D1H810140003	BLOCK RESISTOR 100	1		R135	EF
R55	D1H810140003	BLOCK RESISTOR 100	1		R136	EF
R56	D1H810140003	BLOCK RESISTOR 100	1		R137	EF
R57	D1H810140003	BLOCK RESISTOR 100	1		R138	EF
R58	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1		R139	EF
R60	D1H810140003	BLOCK RESISTOR 100	1		R140	EF
R61	D1H810140003	BLOCK RESISTOR 100	1		R141	EF
R62	D1H810140003	BLOCK RESISTOR 100	1		R142	EF
R63	D1H810140003	BLOCK RESISTOR 100	1		R143	EF
R65 R66	ERJ3GEYJ201V		1		R146 R148	EF
R67	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200 M.RESISTOR CH 1/16W 200	1		R149	EF
R68		M.RESISTOR CH 1/16W 200	1		R155	EF
R69	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R156	EF
R70	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R157	EF
R71	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R158	EF
R72	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R159	EF
R73	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R160	EF
R74	ERJ3GEYJ201V	M.RESISTOR CH 1/16W 200	1		R161	EF
R75	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1		R162	ER
R76	ERJ3GEYJ103V		1		R163	EF
R77		M.RESISTOR CH 1/16W 9.1K	1		R164	ER
R78	ERJ3RBD123V	M.RESISTOR CH 1/16W 12K	1		R165	ER

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R79	ERJ3RBD273V	M.RESISTOR CH 1/16W 27K	1	
R80	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R81	ERJ3GEYJ623V	M.RESISTOR CH 1/16W 62K	1	
R82 R83	ERJ3GEYJ103V ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K	1	
R84	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 10K	1	
R85	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R86	ERJ6GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R87	ERJ3GEYJ511V	M.RESISTOR CH 1/16W 510	1	
R88	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R89	ERJ6GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R90	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R91 R92	ERJ3GEYJ103V ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K	1	
R93	ERJ3GEYJ470V	M.RESISTOR CH 1/16W 47	1	
R94	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R95	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R97	ERJ3GEYJ470V	M.RESISTOR CH 1/16W 47	1	
R98	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R99	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R100	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R101 R102	ERJ3RBD103V ERJ3GEY0R00V	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 0	1	
R102	ERJ3RBD333V	M.RESISTOR CH 1/16W 0	1	
R104	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R105	ERJ3GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R106	ERJ3RBD303V	M.RESISTOR CH 1/16W 30K	1	
R107	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R108	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1	
R109	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1	
R110	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1	
R112	ERJ3RBD682V	M.RESISTOR CH 1/16W 6.8K	1	
R113 R114	ERJ3RBD623V ERJ3RBD103V	M.RESISTOR CH 1/16W 62K M.RESISTOR CH 1/16W 10K	1	
R115	ERJ3GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R116	ERJ3RBD303V	M.RESISTOR CH 1/16W 30K	1	
R117	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R118	ERJ3RBD272V	M.RESISTOR CH 1/16W 2.7K	1	
R119	ERJ3RBD393V	M.RESISTOR CH 1/16W 39K	1	
R120	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R121	ERJ6GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R122 R123	ERJ6GEY0R00V ERJ6GEY0R00V	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0	1	
R124	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R125	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R126	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R127	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R128	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R129	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R131		M.RESISTOR CH 1/16W 100K	1	
R132 R133	ERJ3GEYJ104V ERJ3RBD102V	M.RESISTOR CH 1/16W 100K M.RESISTOR CH 1/16W 1K	1	
R134	ERJ3GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R135	ERJ3RBD102V	M.RESISTOR CH 1/16W 1K	1	
R136	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R137	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R138	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R139	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R140	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R141 R142	ERJ3GEYJ101V ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 100K	1	
R143	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R146	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R148	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R149	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R155	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R156	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R157	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R158 R159	ERJ3GEYJ223V ERJ3GEYJ103V	M.RESISTOR CH 1/16W 22K M.RESISTOR CH 1/16W 10K	1	
R160		M.RESISTOR CH 1/16W 47K	1	
R161	ERJ3GEYJ152V	M.RESISTOR CH 1/16W 1.5K	1	
R162	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R163	ERJ3GEYJ473V	M.RESISTOR CH 1/16W 47K	1	
R164	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R165	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R166	ERJ3GEYJ393V	M.RESISTOR CH 1/16W 39K	1	
R167	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R168	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R169	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R170	ERJ3GEYJ202V	M.RESISTOR CH 1/16W 2K	1	
R171		M.RESISTOR CH 1/16W 1K	1	
R173	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R175	ERJ3GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R176	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R177	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R178		M.RESISTOR CH 1/16W 1K	1	
R179	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R180		M.RESISTOR CH 1/16W 1K	1	
R181	ERJ3GEYJ101V	M.RESISTOR CH 1/16W 100	1	
R182		M.RESISTOR CH 1/16W 1K	1	
R183	ERJ3GEY0R00V	M.RESISTOR CH 1/16W 0	1	
R184	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R185	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R186	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R187	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R188	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R189	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R190	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R191	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R192	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R193		M.RESISTOR CH 1/16W 10K	1	
R194	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R196	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R197	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R198	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R199	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R200	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R201	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R202	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R203	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R204	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R205	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R206	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R207	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R208	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R209	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R210		M.RESISTOR CH 1/16W 620	1	
R211	ERJ3GEYJ621V	M.RESISTOR CH 1/16W 620	1	
R212	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R213	ERJ3GEYJ103V	M.RESISTOR CH 1/16W 10K	1	
R214		M.RESISTOR CH 1/16W 100K	1	
R215	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R216	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R217	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R218	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R219	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R220	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R221	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R222	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R223	ERJ3GEYJ104V	M.RESISTOR CH 1/16W 100K	1	
R224	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R225	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R226	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R227	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
R228	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	1	
			Ш	
TP1	D0YDR0000011	TEST POINT	1	
TP2	D0YDR0000011	TEST POINT	1	
TP3	D0YDR0000011	TEST POINT	1	
TP4	D0YDR0000011	TEST POINT	1	
TP5	D0YDR0000011	TEST POINT	1	
TP6	D0YDR0000011	TEST POINT	1	
TP7	D0YDR0000011	TEST POINT	1	
			$oxedsymbol{oxed}$	
X1	H0J120500005	CRYSTAL OSCILLATOR	1	
			\perp	
			\perp	
			$oxed{oxed}$	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
= E2	VEAB0114A	REAR P.C.BOARD	1	(DTL)
■ E3	VEABUTT4A	REAR P.C.BOARD	1	(RTL)
C101	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C102	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C103	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C104 C105	F1H1H101A231 F1H1H101A231	C.CAPACITOR CH 50V 100P C.CAPACITOR CH 50V 100P	1	
C105	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C107	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C108	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C109	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C110	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C111	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C112 C113	F1H1H101A231 F1H1H101A231	C.CAPACITOR CH 50V 100P C.CAPACITOR CH 50V 100P	1	
C114	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C115	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C116	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C117	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C118	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C119	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C120 C121	F1H1H101A231 F1H1H101A231	C.CAPACITOR CH 50V 100P C.CAPACITOR CH 50V 100P	1	
C122	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C123	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C124	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
C125	F1H1H101A231	C.CAPACITOR CH 50V 100P	1	
J101	K2YZ08000001	JACK	1	
J102	K2YZ08000001	JACK	1	
J103 J104	K2YZ08000001 K2YZ08000001	JACK JACK	1	
J105	K2YZ08000001	JACK	1	
J106	K4CD01000007	JACK	1	
L101	J0JBC0000005	COIL	1	
L102	J0JBC0000005	COIL	1	
L103	J0JBC0000005	COIL	1	
L104 L105	J0JBC0000005 J0JBC0000005	COIL	1	
L106	J0JBC0000005	COIL	1	
L107	J0JBC0000005	COIL	1	
L108	J0JBC0000005	COIL	1	
L109	J0JBC0000005	COIL	1	
L110	J0JBC0000005	COIL	1	
L111	J0JBC0000005	COIL	1	
L112	J0JBC0000005	COIL	1	
L113 L114	J0JBC0000005 J0JBC0000005	COIL	1	
L115	J0JBC0000005	COIL	1	
L116	J0JBC0000005	COIL	1	
L117	J0JBC0000005	COIL	1	
L118	J0JBC0000005	COIL	1	
L119	J0JBC0000005	COIL	1	
L120	J0JBC0000005	COIL	1	
L121 L122	J0JBC0000005	COIL	1	
L122 L123	J0JBC0000005 J0JBC0000005	COIL	1	
L124	J0JBC0000005	COIL	1	
L125	J0JBC0000005	COIL	1	
L126	J0JBC0000005	COIL	1	
L127	J0JBC0000005	COIL	1	
L128	J0JBC0000005	COIL	1	
L129	J0JBC0000005	COIL	1	
L130	J0JBC0000005	COIL	1	
P101	K1KA26B00036	CONNECTOR	1	
			Ė	
R101	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R102	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R103	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R104	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
R105	ERJ3GEYJ102V	M.RESISTOR CH 1/16W 1K	1	
	L	İ	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & De	escription
■ E4	VJBB0115	OPTION P.C.BOARD	1	(RTL)				
			Ė	· =/				
								İ
C301		C.CAPACITOR CH 50V 0.01U	1					Ĺ
C302		C.CAPACITOR CH 50V 0.01U	1					
C303 C304		C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 50V 0.01U	1					\vdash
C304		T.CAPACITOR CH 50V 0.01U	1					\vdash
0303	1311104704049	1.OAI ACITOR CIT 10V 470	L'					
D301	MA2J11100L	DIODE	1					
D302	MA2J11100L	DIODE	1					
D303	MA2J11100L	DIODE	1					
D304	MA2J11100L	DIODE	1					
D305	MA2J11100L	DIODE	1					
D306	LN38GPX	DIODE	1					
J301	K4CD01000007	JACK	1					
J301	K4CD01000007	JACK	'					
P301	K1KA22B00010	CONNECTOR	1					
			Ė					
Q306	UNR521400L	TRANSISTOR	1					
QR301		TRANSISTOR	1					
QR302	UNR521400L	TRANSISTOR	1					
QR303		TRANSISTOR	1					-
QR304	UNR521400L UNR521400L	TRANSISTOR	1					\vdash
QR305	UNK021400L	TRANSISTOR	1					\vdash
R301	ERJ3GEY,I103V	M.RESISTOR CH 1/16W 10K	1					
R302		M.RESISTOR CH 1/16W 10K	1					
R303		M.RESISTOR CH 1/16W 47K	1					
R304		M.RESISTOR CH 1/16W 10K	1					
R305		M.RESISTOR CH 1/16W 10K	1					
R306		M.RESISTOR CH 1/16W 300	1					
R308		M.RESISTOR CH 1/16W 10K	1					_
R309		M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 270	1					
R310 R312		M.RESISTOR CH 1/16W 270 M.RESISTOR CH 1/16W 47K	1					
R313		M.RESISTOR CH 1/16W 10K	1					
R314		M.RESISTOR CH 1/16W 10K	1					
R315		M.RESISTOR CH 1/16W 270	1					
R317		M.RESISTOR CH 1/16W 270	1					
R319		M.RESISTOR CH 1/16W 270	1					
R321	ERJ3GEYJ122V	M.RESISTOR CH 1/16W 1.2K	1					
CM204	KOA A04000001	ewitch	-					\vdash
SW301 SW302	K9AA01800001 K0F111A00116	SWITCH SWITCH	1					
SW302	K0F111A00116	SWITCH	1					
SW304		SWITCH	1					
SW305		SWITCH	1					
SW306	K0F111A00115	SWITCH	1	<u> </u>				
SW307	K0F111A00115	SWITCH	1					
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